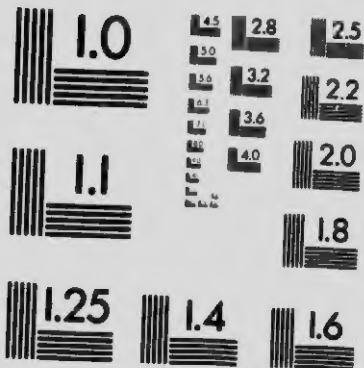


MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



APPLIED IMAGE Inc

1653 East Main Street
Rochester, New York 14609 USA
(716) 482 - 0300 - Phone
(716) 288 - 5989 - Fax

016.62
En 33

The
Canadian Society of Civil Engineers

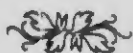
413 DORCHESTER STREET WEST, MONTREAL

Catalogue of the Library

MONTREAL:
The Witness Press
1907

(Canadian Society of Civil Engineers)

Engineering Institute of Canada



Catalogue of the Library



MONTREAL

The Witness Press

1907

HAMILTON PUBLIC LIBRARY

DEC 17 1934

Cap. 1

Contents

	PAGE
PART I. Authors' Catalogue of Bound Books	1
Addenda Authors' Catalogue	67
PART II. Subject Index to Part I.	69
Addenda Subject Catalogue	121
PART III. Authors' Catalogue of Unbound Transactions, Pamphlets, and Periodicals	122
PART IV. Subject Index to Catalogue of Unbound Works	175
PART V. List of Transactions, Proceedings, etc., of Societies	182
PART VI. List of Periodicals	185

1

1

1

V

2

1

3

V

4

1

8

5

0

1

C

D

8

8

C

Directions for use of Catalogue

- I. To find a book on any given subject or by a known author or society.*

This catalogue is divided into six sections:—

- 1. Catalogue of Bound Volumes Alphabetically by Authors.**

Periodicals, Transactions of Societies, Publications of Governments, and works having no stated authors are listed under the names of the periodical, the society, the country or the leading word of the title.

- 2. Catalogue of Bound Volumes Alphabetically by Subjects.**

The classification is simple, each book being placed under its most appropriate general headings.

- 3. Authors' Catalogue Unbound Volumes, Periodicals, Pamphlets, etc.**

This is similar in all respects to the authors' catalogue of bound volumes.

- 4. Subject Index to Catalogue of Unbound Volumes, etc.**

Under each subject will be found the names of all authors dealing with the subject. Further information can then be found in the authors' catalogue, No. 3.

- 5. List of all Transactions, Minutes and Proceedings of Scientific Societies, etc.**

These publications also appear in catalogues 1 or 3.

- 6. List of all Periodicals, both Bound and Unbound.**

These publications also appear in catalogues 1 and 3.

-
- II. To find a short article on any given subject in any periodical or in the transactions of any society.*

The subject catalogues, Nos. 2 and 4, refer to the main subjects only of each work, and do not contain any detailed references to periodical literature, society transactions, etc.

To look up articles of this character it is necessary to consult special index volumes or bibliographies as follows:—

1. The Engineering Index contains an almost complete bibliography of all engineering articles in the English, French and German periodicals, and many learned Societies from 1884.

2. The Subject Index of the Institution of Civil Engineers gives references to all articles published by the Institution, and to thousands of abstracts from all sources.

3. The Crerar Catalogue gives references to all modern works on engineering.

4. A Mining and Metallurgical card catalogue at McGill University is available for members of the Society. It is virtually complete for these subjects, both as regards books and periodicals.

5. A number of other bibliographies and general indexes are also available.

Members who wish to have references sought out or abstracts made can have the work done at a small expense by writing to the Secretary.

III. Abbreviations used.

Book Sizes.

Folio = F. Oblong folio = Obl. F. Square folio =

Sq. F. F³ = $\frac{4\text{cm.}}{5\text{cm.}}$ larger than folio.

Quarto = Q. Square Quarto = Sq. Q.

Octavo = O.

Sexto = S. Narrow sexto = Nar. S.

Duodecimo = D. Narrow duodecimo = Nar. D.

Bulletin = B.

et al = et alibi, and elsewhere.

Edition, editor = Ed.

Stereotyped edition = Stereo'd Ed., revised edition = rev. ed.

German edition = Ger. Ed.

American edition = Am. Ed.

Manuscript = MSS.


Translator, translation = Tr.

Volume = Vol.

The Canadian Society of Civil Engineers.

Part 1.

Authors' Catalogue of Bound Books in Library



ABBOTT, ARTHUR VAUGHAN

The electrical transmission of energy. Manual for the design of electric circuits. O. 4th Ed. New York and London, 1904.

Telephony. A manual of the design and operation of telephone exchanges. 6 Vols. O. New York, 1903.

ADCOCK, HENRY

Rules and data for the steam engine and for railways, canals, and turnpike roads. Nar. D. London, 1839.

ALLSOP, S. P.

Induction coils and coil making. A treatise on construction and working of shock, medical, and spark coils. D. 2nd Ed. London and New York, 1896.

AMERICAN ENGINEER AND RAILROAD JOURNAL

Vol. 1-70. F. Q. and O. (1832-1896.) Missing—Vols. 13, 14, 31, 35, and 64.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

Transactions. Vol. 6— O. New York, 1889—

AMERICAN INSTITUTE OF MINING ENGINEERS

Index. Vols. 1-15, 1888; and Vols. 21-25, 1897.

Transactions. Vol. 15— O. New York, 1887—

AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION

Proceedings of the annual convention. O. Chicago, 1900—

AMERICAN SOCIETY OF CIVIL ENGINEERS

Catalogue of library. O. New York, 1900.

Index to transactions. Vols. 1-45. O. New York, 1901.

Transactions. Vol. 1— O. New York, 1872— Missing—Vols. 23 and 32.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Transactions. Vol. 1— O. New York, 1880— Missing—
Vol. 13.

AMERICAN SOCIETY OF TESTING MATERIALS

Proceedings. 1901— O. Philadelphia, 1902—

APPLETON'S MECHANIC'S MAGAZINE AND ENGINEER'S JOURNAL

Vols. 1-3, 1851-1853. Ed. by J. W. Adams. Vol. 1. O. Vols. 2 and 3. Sq. Q. New York, 1852-1854.

ARMSTRONG, R.

Rudimentary treatise on steam boilers. D. London, 1857.

ARTIZAN CLUB

A treatise of the steam engine in its application to mines, mills, steam navigation, and railways. Sq. Q. London, 1851.

ARUNDELL, WHITTON

A practical treatise on the law relating to mines and mining companies. O. London, 1862.

ASSOCIATION OF ENGINEERING SOCIETIES, BOARD OF MANAGERS.

Descriptive index of current engineering literature. Vol. 1. 1884-1891. Chicago, 1891.

BAILLAIRGE, CHARLES P.

Clef du tableau stereometrique Baillairge—nouveau systeme de toiser tous les corps—segments troncs et onglets de ces corps, etc. O. Quebec, 1874.

Nouveau traite de geometrie et de trigonometrie, etc. O. Quebec, 1866.

Oeuvres diverses, sundry works. O. Quebec, 1895.

Report of Chevalier C. Baillairge, engineer of the city of

Quebec, on the amelioration of its aqueduct. Resolution of the City Council, 10th June, 1881. O. Quebec, 1881.

Reports, aqueducts, roads, and railroads, docks, etc., 1868-1884 O. Quebec, 1884.

Stereometry tables. O. Quebec, 1884

BAILLAIRGE, G. F.

An index to public buildings in Canada. 9 Vols. Folio Mss Missing—Vol. 3.

Notes. Inland navigation of Canada, ocean, river, and railway routes. Vol. 1. O. Ottawa, 1888.

BAILY, FRANCIS

Astronomical tables and formulae. O. London, 1827.

BAKER, IRA O.

Engineers' surveying instruments—their construction, adjustment, and use. 2nd Ed. D. New York, 1892.

A treatise on masonry construction. O. 9th Ed. New York and London, 1899.

BAKER, M. N., AND RAFTER, GEORGE W.

Sewage disposal in the United States. O. 3rd Ed. New York and London, 1900.

BALDWIN, WILLIAM J.

Baldwin on heating; or steam heating for buildings revised. D. 15th Ed. London, 1900.

BALL, ROBERT STAWELL

Experimental Mechanics. O. London and New York, 1871.

BAMBER, EDWARD FISHER, AND RANKINE, WILLIAM JOHN MACQUORN

A mechanical text book or introduction to the study of mechanics. D. London, 1875

BARLOW, CRAWFORD

The new Tay bridge. F. London and New York, 1889.

BARLOW, PETER

A treatise on the strength of timber, cast iron, malleable iron, and other materials. O. 1st Ed. London, 1837.

BARNARD J. G., BVT. MAJOR-GENERAL. Corps of Engineers,
U. S. Army. Professional papers, No. 22.

Report on the North Sea canal of Holland, and on the improvement of navigation from Rotterdam to the sea. Sq. Q. Washington, 1872.

BARNES, HOWARD T.

Ice-formation, with special reference to anchor ice and frazil. O. 1st Ed. New York, 1906.

BARRE, L. A., AND VIGREUX, CHARLES

Notes et formules de l'ingenieur du constructeur, du mecanicien, metallurgiste, et electricien. D. 11th Ed. Paris, 1897.

BARRUS, GEORGE H.

Boiler tests, embracing the results of 137 evaporative tests made on 71 boilers, conducted by the author. O. New York, 1900.

BAUERMAN, H.

A treatise on the metallurgy of iron. O. London and New York, 1868.

BAUM, F. G.

The alternating current transformer. D. New York, 1903.

BAUMEISTER, R., Tr. by J. M. Goodell.

The cleaning and sewerage of cities. O. 2nd Ed. New York, 1895.

BAYLEY, WILLIAM SHIRLEY. (U. S. Geological Survey. Monograph 46.)

The Menominee iron-bearing district of Michigan. Sq. Q. Washington, 1904.

BEARDMORE, NATHANIEL

Hydraulic tables. Nar. O. London, Edinburgh, and Paris, 1852.
Manual of hydrology. O. London, 1862.

BEATON, ALFRED CHARLES

Quantities and measurements. D. 2nd Ed. London, 1868.

BEDELL, FREDERICK

The principles of the transformer. O. New York and London, 1896.

BEDELL, FREDERICK, AND CREHORE, ALBERT CUSHING

Alternating currents. O. 4th Ed. Ithaca, 1901.

BEHREND, B. A.

The induction motor. O. New York, 1901.

BELL, GEORGE JOSEPH

A practical treatise on segmental and elliptical oblique or skew arches, setting forth the principles and details of construction in clear and simple terms. Q. 2nd Ed. Carlisle, London, and New York, 1906.

BELL, LOUIS

The art of illumination. O. New York, 1902.

Electric power transmission. O. 3rd Ed. New York, 1901.

Power distribution for electric railroads. O. 3rd Ed. New York, 1900.

BERG, ERNST J., AND STEINMETZ, CHARLES PROTEUS

Theory and calculation of alternating current phenomena. O. 3rd Ed. New York, 1900.

BERG, WALTER G.

Buildings and structures of American railroads. Sq. F. 1st Ed. New York, 1900.

RIBBINS, ARTHUR, et al. (U. S. Geological Survey. Monograph 48.)

Status of the Mesozoic floras of the U. S. Second paper. Sq. C. Washington, 1905.

BILLINGS, WILLIAM R.

Some details of water works construction. O. 3rd Ed. New York, 1898.

BIRKMIRE, WILLIAM H.

Architectural iron and steel, and its application in the construction of buildings. O. 3rd Ed. New York and London, 1903.

The planning and construction of high office buildings. O. 3rd Ed. New York and London, 1905.

BLAIR, ANDREW ALEXANDER

The chemical analysis of iron. O. 5th Ed. Philadelphia and London, 1902.

BLOODGOOD, S. DEWITT

A treatise on roads, their history, character, and utility. O. Albany, 1838.

BLOUNT, BERTRAM

Practical electro-chemistry. O. London and New York, 1903.

BODMER, G. R.

Hydraulic motors, turbines, and pressure engines. D. 2nd Ed. London, 1895.

BOLTON, REGINALD

Motive powers and their practical selection. D. New York and London, 1895.

BONNYCASTLE, JOHN

An introduction to astronomy. O. 5th Ed. London, 1811.

BORCHERS, DR. W., AND McMILLAN, WALTER G.

Electric smelting and refining. O. 2nd English Ed. London, 1904.

BOSTON TRANSIT COMMISSION

Third annual report of the Boston Transit Commission for the year ending August 15, 1897. O. Boston, 1897.

BOURINOT, JOHN GEORGE

Parliamentary procedure and practice in the Dominion of Canada. O. 2nd Ed. Montreal, 1892.

BOURNE, JOHN

Examples of steam, air, and gas engines. F. London, 1878.

Drawings of the London and Birmingham railway, with account by John Britton. 55 x 37 cm. London, 1839.

History and description of the Great Western railway. 55 x 37.5 cm. London, 1846.

BOURNE, JOHN (Ed.)

A treatise of the steam engine in its application to mines, mills, steam navigation, and railways. By the Artizan Club. Sq. Q. London, 1851.

BOVEY, HENRY TAYLOR

Applied mechanics. Part 1. O. 1st Ed. Montreal, 1883

BOWIE, A. J., JR.

A practical treatise on hydraulic mining in California. Q. 5th Ed. New York, 1893.

BOYLE, DR.

Descriptive catalogue of the woods commonly employed in this country for the mechanical and ornamental arts. O. 2nd Ed. London, 1852.

BRANNT, WILLIAM T.

The Metallic Alloys. O. Revised Ed. Philadelphia and London, 1896.

BREES, S. C.

A glossary of civil engineering. O. London, 1841.

The illustrated glossary of practical architecture and civil engineering. O. London, 1853.

Railway practice. Sq. Q. London, 1837.

Railway practice. Sq. Q. 3rd Ed. London, 1847.

Railway practice. Sq. Q. London, 1827.

Railway practice. Second series. Sq. Q. 1st Ed. London, 1847.

Railway practice. Third series. Sq. Q. 1st Ed. London, 1847.

Railway practice. Fourth series. Q. 1st Ed. London, 1847.

Railway practice. Plates. Nar. F.

BROUGH, BENNETT H.

A treatise on mine surveying. D. 11th Ed. London, 1904.

BROWN, RICHARD

The coal fields and the coal trade of the Island of Cape Breton. O. London, 1871.

BROWN, THOMAS, AND MAIN, T. J.

The marine steam engine. Designed chiefly for the use of the officers of Her Majesty's navy. O. 2nd Ed. London and Portsmouth, 1852.

BROWN, WALTER LEE

Manual of assaying. D. 7th Ed. Chicago, 1897.

BRYAN, C. W., JOHNSON, J. B., AND TURNEAURE, F. E.
The theory and practice of modern framed structures. Sq. Q.
6th Ed. New York, 1894.

BUCKMASTER, J. C.
The elements of mechanical physics. S. London, 1864.

BUEL, ARTHUR W. AND HILL, CHARLES S.
Reinforced concrete. O. New York, 1906.
Reinforced concrete. O. New York, 1904.

BUILDER
12 Vols. F. London, 1856-1867.

BURN, R. SCOTT
The new guide to carpentry, general framing, and joinery. Sq.
O. Edinburgh and London.
The new guide to masonry, bricklaying, and plastering. Sq. Q.
Edinburgh and London.

BURGOYNE, MAJ.-GEN. SIR JOHN
Rudimentary treatise on the blasting and quarrying of stone.
D. London, 1849.

BURR, WILLIAM H.
The elasticity and resistance of the materials of engineering.
O. 6th Ed. New York and London, 1903.

BYRNE, OLIVER
The practical metal-workers' assistant. O. Revised Ed. Phila-
delphia and Chicago, 1867.

CAIRO BRIDGE
Report of Stuyvesant Fysche, president. Report of G. S. Morri-
son to the president of the Chicago, St. Louis, and New Orleans
R. R. Co. Obl. F. Chicago, 1892.

CALEDONIA CANAL
Eleventh report of the commissioners for making and maintain-
ing the Caledonia canal. 2 Vols. F. London, 1814.

CAMP, W. M.

Notes on track construction and maintenance. 2 Vols. O. 2nd Ed. Chicago. 1904.

CAMPBELL, HARRY HUSE

The manufacture and preparation of iron and steel. O. 2nd Ed. New York and London. 1904.

CANADA—Canal Commission.

Letter to the Honourable the Secretary of State from the Canal Commissioners respecting the improvement of the inland navigation of the Dominion of Canada. O. Ottawa, 1871.

CANADA—Census.

Census of Manitoba, 1885-6. O. Ottawa, 1887.

Census of the three provisional districts of the Northwest Territories. 1884-5. O. Ottawa, 1886.

Census of Canada. 1870-1871. 5 Vols. O. Ottawa, 1873. 1880-1881. 4 Vols. O. Ottawa, 1885.

CANADA—Crown Lands Commission.

Report du Commissaire de la Couronne du Canada pour l'annee 1856. Presente par Joseph Cauchon. Q. Toronto, 1857.

CANADA—Department of the Interior—Mines Branch.

Report of the commission appointed to investigate the zinc resources of British Columbia and the conditions affecting their exploitation. Q. Ottawa, 1906.

CANADA—Department of Public Works.

General report of the Minister of Public Works, from June, 1867, to July, 1882. O. Ottawa, 1883. Maps. O.

CANADA—Department of Public Works.

Report on a general scheme of improvements for the harbour of Montreal, by the commission of engineers. O. 1877.

CANADA—Department of Public Works.

General report of Public Works, Canada, 1867. O. Ottawa, 1868. Public works reports, 1852, '3, '5, '6, 1870. 5 Vols. O. Quebec. Ottawa, 1871.

CANADA—Legislative Assembly.

Maps, reports, estimates, etc., relative to improvements of the navigation of the river St. Lawrence and a proposed canal connecting the R. St. L. and L. Champlain. 1836.

CANADIAN ENGINEER

Vols. 1-3. 3 Vols. F. Montreal and Toronto, 1893-1896.

CANADIAN INSTITUTE

Proceedings. Vols. 4-7. 2 Vols. O. Toronto, 1885-1890.

Transactions. Q. Toronto, 1891—

CANADIAN IRRIGATION SURVEYS

General report on irrigation. 1894-1898. 2 Vols. Q. Ottawa, 1898-1900.

CANADIAN MINING INSTITUTE

Journal. Vol. 1— O. Ottawa, 1898— (Vol. 1 unbound.)

CANADIAN SOCIETY OF CIVIL ENGINEERS

Hand-book of engineering works in Canada. D. Montreal, 1904.

Photographs of members. 2 Vols. Ob. Q.

Transactions. Vols. 1— 17 Vols. O. Montreal, 1888—

CARPENTER, ROLLA C.

Heating and ventilating buildings. A manual for heating engineers and architects. O. 4th Ed. New York and London, 1905.

CARUS-WILSON, CHARLES ASHLEY

Electro-dynamics. The direct current motor. D. London, New York, and Bombay, 1898.

CATHCART, WILLIAM LEDYARD

Machine design. Part 1. Fastenings. O. New York, 1903.

CHALMERS, JAMES B.

Graphical determination of forces in engineering structures. O. London, 1881.

CHAMBERS' MATHEMATICAL TABLES

Chambers' mathematical tables. S. London and Edinburgh, 1867.

CHANUTE, O., AND MORISON, GEORGE

The Kansas City bridge, with an account of the regimen of the Missouri river and a description of methods used in its improvement in that river. Sq. Q. New York, 1870.

CHARLES RIVER—Metropolitan Park Commission

Report of the joint board consisting of Metropolitan Park Commission and the State Board of Health upon the improvement of the Charles River, 1894.

CHARLETON, A. G.

Report book for mining engineers. Ob. Tt. 1st Ed. London, 1905.

CHAUSSÉ, ALCIDE

Code of building laws and regulations of the city of Montreal O. Montreal, 1906.

CHAUSSÉ, ALCIDE, AND RITCHIE, J. WM.

Building inspectors' handbook of the city of Montreal. D. Montreal, 1901.

CHICAGO, Public Works Department

Mayor's annual message and nineteenth annual report of the department of public works to the city council of the city of Chicago, for the fiscal year ending December 31st, 1894. O. Chicago, 1895.

Mayor's annual message and fifteenth annual report of the department of public works to the city council of the city of Chicago, for the fiscal year ending December 31st, 1890. O. Chicago, 1891.

Twelfth annual report of the department of public works of the city council of the city of Chicago, for the fiscal year ending December 31st, 1887. O. Chicago, 1888.

CHRISTIE, WILLIAM WALLACE

Chimney design and theory. A book for engineers and architects. 2nd Ed. O. New York, 1902.

CHURCH, IRVING P.

Mechanics of engineering. O. New York and London, 1904.

CIVIL ENGINEER AND ARCHITECT'S JOURNAL

1-14, 24-27. 18 Vols. Sq. Q. London, 1851-1864.

CLARK, DANIEL KINNEAR

A manual of rules, tables, and data for mechanical engineers.
O. 6th Ed. New York, 1891.

CLARK, EDWIN

The Britannia and Conway tubular bridge. Under supervision
of Robert Stephenson. 52.5 x 38 cm. London, 1850.

The Britannia and Conway tubular bridge. Plates. Prepared
under Robert Stephenson. 54 x 38.5 cm. London, 1850.

CLARKE, GEORGE SYDENHAM (Tr.)

The elements of graphic statics, by Van Ott, Carl. D. London
and New York, 1885.

CLARKE, JOHN M., AND HALL, JAMES. University of the State of
New York.

A memoir on the paleozoic reticulate sponges of dictyosporalgidae.
Sq. F. New York and Albany, 1898.

CLARKE, THOMAS CURTIS

An account of the iron railway bridge across the Mississippi
river at Quincy, Ill., by the Engineer J. H. Q. New
York, 1869.

CLEMENTS, J. MORGAN. (U. S. Geological Survey. Monograph 45.)

The Vermillion iron-bearing district of Minnesota, with an atlas.
Sq. Q. Washington, 1903.

CLEMENTS, J. MORGAN, AND SMYTH, HENRY L. (U. S. Geological
Survey. Monograph 36.)

The Crystal Falls iron-bearing district of Michigan. Sq. Q.
Washington, 1899

CLERK, DUGALD

The gas engine. D. London, 1886.

The gas and oil engine. O. 6th Ed. New York, 1904.

CLEVELAND INSTITUTION OF ENGINEERS

Proceedings. O. Middlesborough, 1890—
Missing— Vols. 1 and 9.

COAL AND METAL MINERS' POCKET BOOK

S. 8th Ed. Scranton, 1904.

COFFIN, FREEMAN C.

The graphical solution of hydraulic problems. D. 2nd Ed.
New York and London, 1904.

COLBURN, JERAH

Locomotive engineering and the mechanism of railways. F.
London and Glasgow, 1871

COLLINS, HARRY F.

The metallurgy of lead and silver. Part 2, silver. O. London,
1900.

COLORADO—State Engineer.

Fourth biennial report of the State engineer to the Governor of
Colorado, for the years 1887 and 1888. Part 1. O. Denver, 1889

COLYER, FREDERICK

Hydraulic, steam, and hand power lifting and pressing
machinery. O. London and New York, 1881.

COMBES, M. C.

Traite de l'exploitation des mines. Sq Q. Liege, 1847.

COMMISSION EUROPEENNE

Cartes du Delta de Danube. D'apres les projets de Sir Ch. A.
Hartley sous le direction de M. C. Ruhl. 56.5 x 40 cm. Leipzig,
1887.

Memoire sur les travaux d'amelloration du cours du bas Danube
executes pendant la periode 1873-1886. F. Galatz, 1888.

CONSIDERE, ARMAND AND MOISSEIFF, LEON S.

Experimental researches on reinforced concrete. O. Authorized
Ed. New York, 1903.

CORPS OF CIVIL ENGINEERS

Extracts from papers of 1827-1843. F. MSS.

CORTHELL, E. L.

Report of the seventh International Congress of Navigation.
Held at Brussels, July, 1898. O. Washington, 1900.

A history of the jetties at the mouth of the Mississippi river.
O. New York, 1880.

COTTERRILL, JAMES H.

Applied mechanics. An elementary general introduction to the theory of structures and machines. O. 5th Ed. London and New York, 1900.

CRANDALL, C. L.

Tables for the computation of railway and other earthwork. Q. Ithaca, 1886.

The transition curve; by off-sets and by deflection angles. S. 2nd Ed. New York and London, 1903.

CREHORE, ALBERT CUSHING, AND BEDELL, FREDERICK

Alternating currents. O. 4th Ed. Ithaca, 1901.

CRESY, EDWARD

An encyclopadia of civil engineering, historical, theoretical, and practical. O. London, 1847.

CREW, BENJAMIN, J.

A practical treatise on petroleum. O. Philadelphia and London, 1887.

CROCKER, FRANCIS B.

Electric lighting. 2 Vols. O. 4th Ed. New York and London, 1904.

CROSS, WHITMAN, EMMONS, S. F., AND ELDRIDGE, G. (U. S. Geological Survey. Monograph 27.)

Geology of the Denver basin in Colorado. Sq. Q. Washington, 1896.

CUMMINGS, URIAH

American cements. O. Boston, 1898.

CUNDILL, MAJOR J. P.

A dictionary of explosives. O. Chatham, 1889.

CURLES,—

The gold mines of the world. Q. 2nd Ed. London and New York, 1902

CUNTZ, J. H., AND SUPPLEE, HENRY HARRISON (Editors-).

The engineering index. Vols. 3 and 4. O. New York and London, 1901 and 1906

CUSHING, H. C., JR.

Standard wiring for electric light and power. S. 10th Ed.
New York, 1904.

DALBY, W. E.

Balancing of engines. O. London, 1902.

DALE, T. NELSON, PUMPELLE, R., AND WOLFF, J. E. (U. S. Geological Survey. Monograph 23.)

Geology of the Green Mountains in Massachusetts. Sq. Q.
Washington, 1894.

DANA, EDWARD SALISBURY

A text-book of mineralogy, with an extended treatise on crystallography and physical mineralogy. O. 10th Ed. New York, 1884.

DANA, JAMES D.

A manual of geology, treating of the principles of the science with special reference to American geological history. O. 4th Ed. New York, Cincinnati, and Chicago (1895?).

DAVY, CHRISTOPHER

The architect, engineer, and operative builder's constructive manual. Part 1. O. London, 1839.

DAWSON, PHILIP

The engineering and electric traction pocket book. Nar. S. 3rd Ed. London and New York, 1903.

DAY, DAVID TALBOT. (U. S. Geological Survey.)

Mineral resources of the United States. 8 Vols. O. Washington, 1892-1894, and 1901-1904.

DE MORGAN, A.

A budget of paradoxes. O. London, 1872.

DEMPSEY, G. DRYSDALE

The practical railway engineer. Q. London, 1847.

DERR, W. L.

Block signal operation, a practical manual. Ob. Tt. 2nd Ed.
New York, 1902.

DIRCKS, HENRY

The life, times, and scientific labours of the second Marquis of Worcester. O. London, 1865.

DOBSON, E.

A rudimentary treatise on foundations and concrete works D London, 1850.

DOBSON, EDWARD

Rudimentary treatise on masonry and stonecutting, for the use of beginners. D. London, 1849.

DOMINION ANNUAL REGISTER AND REVIEW

Dominion annual register and review for the eighteenth year of the Canadian union. O. Toronto, 1885.

DOOLITTLE, C. L.

A treatise on practical astronomy. O. 4th Ed. New York and London, 1903.

DREDGE, JAMES, REILLY, M F., AND VIVAREZ, H.

Electric illumination. 2 Vols. Sq. Q. London and New York, 1885.

DRINKER, H. S.

Tunnelling, explosive compounds, and rock drills. Sq. F. 3rd Ed. New York, 1893.

DUBOIS, A. JAY

The new method of graphical statics. O. New York, 1875.

The strains in framed structures. Sq. Q. 6th Ed. New York, 1890.

A manual of engineering and of the construction of machines. Tr. Vol. 2. Hydraulics and hydraulic motors. O. 4th Ed. New York, 1894.

DURAND, WILLIAM F.

The resistance and propulsion of ships. O. 1st Ed. New York and London, 1903.

ECK, CHARLES LOUIS GUSTAVE

- requis of *Traite de construction en poteries et fer.* F^o. 2me Tirage
Paris, 1841.
Traite de l'application du fer de la fonte et de la tole. F^o. Paris,
1841.

EGLESTON, THOMAS

- orks D *The metallurgy of silver, gold, and mercury in the United
States.* O. New York and London, 1887.

ELDRIDGE, GEORGE HOMANS, EMMONS, S. F., AND CROSS, W.
(United States Geological Survey. Monograph 27.)

- the use *Geology of the Denver basin in Colorado.* Sq. Q. Washington,
1896.

ELECTRICAL WORLD

- th veat Vols. 23-26. F. New York, 1894 and 1895.

EMERSON, BENJAMIN KENDALL. (U. S. Geological Survey.
Monograph 29.)

- ork and *Geology of Old Hampshire County, Massachusetts.* Sq. Q.
Washington, 1898.

EMMET, WILLIAM LE ROY

- w York, *Alternating current wiring and distribution.* F. 2nd Ed. New
York, 1898.

**EMMONS, SAMUEL FRANKLIN, CROSS, W., AND ELDRIDGE,
G. H.** (U. S. Geological Survey. Monograph 27.)

- F. 3rd *Geology of the Denver basin in Colorado.* Sq. Q. Washington
1896.

ENCYCLOPAEDIA AMERICANA

375. 16 Vols. Q. New York and Chicago, 1904.

ENGINEER, THE

- achines. Vols. 56— F^o. London, 1856— Missing—Vols. 57, 58, 60, 62,
1. New 64-76, 86.

ENGINEERING

- w York 1866, Part 2; 1868, 1869, Part 1; 1867, 1868, 1869, Part 1; 1871,
1879, 1869 (1867-71); 1877— Sq. F. London, 1866—

ENGINEERING ASSOCIATION OF NEW SOUTH WALES

Minutes of proceedings. Vol. 1— O. Sydney, 1886—
Missing—Vol. 12.

ENGINEERING INDEX

The Engineering Index, 1884-1905. O. New York and London,
1892-1906.

ENGINEERING NEWS

Vol. 21— Sq. F. New York, 1889— Missing—Vols. 25
and 26, 1891.

ENGINEERING RECORD

Vols. 39— Sq. F. New York, 1898—

The cement industry. Descriptions of Portland and natural
cement plants in the United States and Europe. O. New York,
1900.

ENGINEER'S AND MACHINIST'S ASSISTANT

2 Vols. F. Glasgow, Edinburgh, and London, 1847.

ENGINEERS' CLUB OF PHILADELPHIA

Proceedings. Vols. 6-18. 13 Vols. O. Philadelphia, 1888-1901.

ESCARD, JEAN

Les fours electriques et leurs applications industrielles. Preface
de Henri Moissan. Q. Paris, 1905.

EWING, J. A.

The steam engine and other heat engines. O. Stereo'd. Ed.
Cambridge, 1902.

The strength of materials. O. Cambridge, 1899.

FAIRBAIRN, WILLIAM

Iron, its history, properties, and processes of manufacture. O.
New Ed. Edinburgh, 1865.

FAIRBAIRN, SIR WILLIAM

On the application of cast and wrought iron to building pur-
poses. O. 4th Ed. London, 1870.

FEDERATED MINING INSTITUTE OF CANADA

Journal Vols. 2 and 3. O. Ottawa, 1897-1898.

FERGUSON, JAMES

Lectures on select subjects in mechanics, hydrostatics, hydraulics, pneumatics, and optics. O. 9th Ed. London, 1799.

FLAMANT, A.

Hydraulique. O. 2nd Ed. O. Paris, 1900.
Mecanique generale. O. Paris, 1888.

FLATHER, JOHN J.

Rope driving, a treatise on the transmission of power by means of fibrous ropes. D. 1st Ed. New York and London, 1903

FLEMING, J. A.

Short lectures to electrical artisans. D. London and New York, 1888.

FLEMING, SANDFORD

The Intercolonial, a history. O. Montreal and London, 1876
Report and documents in reference to the Canadian Pacific railway, 1880. Q. Ottawa, 1880.
Report on surveys and preliminary operations on the Canadian Pacific railway to January, 1877. Q. Ottawa, 1877.

FOERSTE, A. F., SHALER, N. S., AND WOODWORTH, J. B.

(Geological Survey. Monograph 33.)
Geology of the Narragansett Basin. Sq. Q. Washington, 1899.

FOLWELL, A. PRESCOTT

Water supply engineering. The designing, construction, and maintenance of water supply systems, both city and irrigation
O. 1st Ed. New York and London, 1900.

FONTAINE, WILLIAM F., et al. (U.S. Geological survey. Monograph 48.)

Status of the mesozoic floras of the U. S. Second paper. 2 Vols
Sq. Q. Washington, 1905.

FORNEY, M. N.

Catechism of the locomotive. D. New York, 1875.

FOSTER, C. LENEVE

A text book of ore and stone-mining. O. 4th Ed. London, 1901

FOSTER, WOLCOTT, C.

A treatise on wooden trestle bridges. According to the present practice of American railroads. 3rd Ed. New York and London, 1904.

FOWLER, WM. H.

The mechanical engineer's pocket book. S. Manchester, 1899

FOX, THOMAS

A practical treatise on heat. D. London, 1868.

FRANCIS, JAMES B.

Lowell hydraulic experiments. Sq. F. 4th Ed. New York, 1883.

On the strength of cast iron pillars, with tables for the use of engineers, architects, and builders. O. New York and London, 1865.

FRANKENFIELD, BUDD, AND SWENSON, BERNARD V.

Testing of electro-magnetic machinery and other apparatus. Vol. 1. Direct Currents. O. New York,

FRANKLIN INSTITUTE

Journal. Devoted to science and the mechanical arts. Vols. 124-156, 1887-1903. O. Philadelphia, 1887-1903.

FREITAG, JOSEPH KENDALL

Architectural engineering, with special reference to high building construction. O. 1st Ed. New York and London, 1895.

FRIZELL, JOSEPH P.

Water power. An outline of the development and application of the energy of flowing water. O. 1st Ed. London and New York, 1901.

FUERTES, JOHN H.

Water filtration works. Q. 1st Ed. New York and London, 1901.

FURMAN, H. VAN F.

A manual of practical assaying. O. 5th Ed. New York and London, 1905.

GALLIGIA, PIETRO

Resistenza dei materiali e stabilita della costruzioni. S.
Revised Ed. Milan, 1905.

GALLOWAY, ELIJAH

History and progress of the steam engine. O. London, 1836.

GANGUILLET, E., AND KUTTER, W. R.

A general formula for the uniform flow of water in rivers and other channels. O. New York and London, 1889.

GANNET, HENRY. (U. S. Geological Survey. Monograph 22.)

A manual of topographical methods. Sq. Q. Washington, 1893.

GENERATION

The generation and utilization of high pressure steam and experience with water tube boilers. Q.

GEOLOGICAL SURVEY OF CANADA

Altitudes in the Dominion of Canada, with a relief map of North America. James White, F.R.S.C., Geographer, Department of the Interior. O. Ottawa, 1901.

Annual report, 1853-1856. 1 Vol. O. Toronto. Vols. 7-12. O. Ottawa, 1894-1899.

Index to reports from 1863 to 1884. O. Ottawa, 1900.

Maps to accompany annual report, 1895, 1897-1899. Ottawa, 1895-1899.

Paleozoic fossils. Vol. 1. Q. Montreal, 1865.

GEOLOGICAL SURVEY OF OHIO. Orton, Edward, Jr., State Geologist.

Fourth series, bulletins 1, 2, and 3. 1—The occurrence and exploitation of petroleum and natural gas in Ohio, 1903. 2—The uses of hydraulic cement, 1904. 3—The manufacture of hydraulic cements, 1904. 3 Vols. O. Columbus, Ohio.

GILLESPIE, W. M.

A manual of the principles and practice of roadmaking. O. New York, 1847.

GILLESPIE, W. M., AND STALEY, CADY.

A treatise on surveying, comprising the theory and practice. 1—Land surveying and direct levelling. 2—Higher surveying. 2 Vols. O. New York, 1902.

GILLETTE, HALBERT POWERS

Earthwork and its cost. D. New York, 1904.

Hand-book of cost data for contractors and engineers. A reference book, giving methods of construction and actual costs of materials and labor on numerous engineering works. D. New York, 1906.

Rock excavation, methods and cost. D. New York, 1904.

GILLMORE, A. A.

Practical treatise on limes, hydraulic cements, and mortars. O. New York, 1864.

GIRTY, G. H., et al. (U. S. Geological Survey. Monograph 32)

Geology of the Yellowstone National Park. Part 2. Sq. Q. Washington, 1899.

GLASGOW—INTERNATIONAL ENGINEERING CONGRESS, 1901.

Report of the proceedings and abstracts of the papers read. O. Glasgow, 1902.

Proceedings. (Meeting held at the University, Glasgow, September 2, 4 and 5, 1901.) Section 1.—Railways. Section 2.—Waterways and Maritime works. 2 Vols. Q. London, 1902.

GLYNN, JOSEPH

Rudimentary treatise on the construction of cranes and machinery. D. London, 1849.

GOAD, CHARLES E.

Atlas of the city of Montreal. Sq. F. Montreal, 1881.

GODFREY, EDWARD

Structural engineering tables. D. Pittsburg, 1905.

GOODELL, J. M. (Tr.)

The cleaning and sewerage of cities. Baumeister, R. O. 2nd Ed. New York, 1895.

GOTSHALL, W. C.

Notes on electric railway economics and preliminary engineering. O. New York, 1904.

GREAT BRITAIN

First report of the commissioners appointed for enquiring into the state of large towns and populous districts. F. London, 1844

Report of the commissioners appointed to enquire into the application of iron to railway structures. Nar. F. London, 1849.

GREAT BRITAIN—Board of Trade.

Reports of Board of Trade on railways, 1845. F. London, 1845

GREENE, CHARLES E.

Trusses and arches. Analyzed and discussed by graphical methods. Part 1—Roof Trusses. O. Revised Ed. New York and London, 1897.

GREENE, DASCOT

An introduction to spherical and practical astronomy. O. Boston, 1892.

GREGORY, CHARLES CURRIE

The engineer or architect as the arbitrator between the employer and the contractor. O. London, 1901.

GREGORY, OLINTHUS

A treatise of mechanics, theoretical, practical, and descriptive. O. 4th Ed. London, 1826.

GROVER, FREDERICK

A practical treatise on modern gas and oil engines. D. 3rd Ed. Manchester, 1902.

GZOWSKI, C. S.

Description of the International bridge, constructed over the Niagara river, near Fort Erie and Buffalo. Sq. F. Toronto, 1873.

HAANEL, EUGENE

The location and examination of magnetic ore deposits by magnetometric measurements. O. Ottawa, 1904.

HADDON, JAMES

Elements of algebra with key. D. 5th Ed. London, 1868.

HAGUE, ARNOLD. (U. S. Geological Survey. Monograph 20.)

Geology of the Eureka district, Nevada, with an atlas. Sq. Q. Washington, 1892.

HAGUE, ARNOLD, et al. (U. S. Geological Survey. Monograph 32)
Geology of the Yellowstone National Park. Part 2. Sq. Q.
Washington, 1899. With atlas, 56 x 46.5 cm.

HALDANE, J. W. C.

Railway engineering, mechanical and electrical. O. London
and New York, 1879.

Steamships and their machinery, from first to last. O. London
and New York, 1893.

HALL, F. G.

The elements of Algebra.... D. London, 1840.

HALL, J. W., AND HARBORD, F. W.

The metallurgy of steel, with a section on the mechanical treat-
ment of steel. O. 1904.

HALL, JAMES, AND CLARKE, JOHN M. University of the State of
New York.

A memoir on the paleozoic reticulate sponges of dictyospongida.
Sq. F¹. New York and Albany, 1898.

HALL, WILLIAM HAM

Report of the State engineer of California on irrigation and the
irrigation question. 1—Irrigation developrient. 2—Irrigation
in California. 2 Vols. O. Sacramento. Vol. 1, 1886. Vol. 2,
1888.

HANN, JAMES

Elements of spherical trigonometry. D. London, 1849.

Examples on the integral calculus. D. London, 1850.

HARBORD, F. W., AND HALL, J. W.

Metallurgy of steel, with a section on the mechanical treatment
of steel. O. London, 1904.

HARDINGHAM, GEORGE GATTON MELHUISE

Patents for inventions and how to procure them. O. London,
1891.

HARRINGTON, JOHN LYLE. (Ed.)

The principal professional papers of Dr. J. A. L. Waddell. O.
1st Ed. New York, 1905.

HARVARD UNIVERSITY

Catalogue—1892-3. D. Cambridge, 1892

HASWELL, CHARLES H.

Mechanics' and engineers' pocket book. 8. 17th Ed. New York, 1904.

HAUPT, HERMAN

General theory of bridge construction. O. New York and Philadelphia, 1851.

HAUY, M. R. J.

An elementary treatise on natural philosophy. 2 Vols. O. London, 1807.

HAY, ALFRED

Principles of alternate current working. D. 3rd Impression. London.

HAYDEN, F. V.

Annual report of progress of U. S. geological survey of Montana and adjacent territories, 1872 O. Washington.

HAYFORD, JOHN F.

A text-book of geodetic astronomy. O. 1st Ed. New York, 1904.

HAZLEHURST, J. N.

Towers and tanks for waterworks. The theory and practice of their design and construction. O. 2nd Ed. New York, 1904.

HEAP, CAPT. D. P.

The engineer department U. S. Army at the International Exhibition, 1876. O. Washington, 1884.

HENDERSON, G. R.

Locomotive operation. A technical and practical analysis. O. Chicago, 1904.

HENRY, GABRIEL (Tr.)

Le sol. Par John Scott et J. C. Morton. Traduit de la 41eme Ed. Anglaise. D. Quebec. 1897.

HERING, CARL

Practical directions for winding magnets for dynamos. D
New York and London, 1887.

HERSCHEL, CLEMENS

Continuous revolving drawbridges. O. Boston, 1875.

115 experiments on the carrying capacity of large rivetted
metallic conduits up to 6 feet per second of velocity of flow. O
1st Ed. New York and London, 1897.

HIGHLAND AND AGRICULTURAL SOCIETY OF SCOTLAND

Transactions, fifth series. Edinburgh, 1889—

Missing—Vols. 3, 4, 6-11, 13.

HILL, CHARLES S., AND BUEL, ARTHUR W.

Reinforced concrete. O. New York, 1904.

Reinforced concrete. O. New York, 1906.

HILL, CHARLES S., AND PRELINI, CHARLES

Tunnelling. A practical treatise. O. 2nd Ed. New York, 1902.

HINCHLIFF, THOMAS WOODBINE

Over the seas and far away. O. London, 1876.

HISCOX, GARDNER D.

Compressed air, its production, uses, and applications. O. New
York, 1901.

Mechanical movements, powers, devices, and appliances used in
constructive and operative machinery and the mechanical arts.
O. 7th Ed. New York, 1901.

HOBART, H. R., AND TALBOTT, E. H.

Biographical directory of the railway officials of America.
O. Chicago and New York, 1885.

HODGES, HARRY F. Corps of engineers, U. S. army. Professional
papers, No. 20.

Notes on mitring lock gates. Sq. Q. Washington, 1892.

HODGES, JAMES

Construction of the great Victoria bridge in Canada. F.
London, 1860.

Construction of the great Victoria bridge in Canada. 61 x 43.5 cm. London, 1860.

Construction of the great Victoria bridge in Canada. Plates 60 x 43 cm. London, 1860.

HOFMAN, H. O.

The metallurgy of lead and the desilverization of base bullion. O. 7th Ed. New York and London, 1904.

HOLMS, A. CAMPBELL

Practical ship-building. 2 Vols. Vol. 1—Text. O. Vol. 2—Diagrams. Ob. F. London, New York, and Bombay, 1901.

HOLTZAPFFEL, CHARLES

Turning and mechanical manipulation. Vol. 2. O. London 1847.

HOSKINS, L. M.

The elements of graphic statics. O. Revised Ed. New York. 1899.

HOSPITALER, E.

Domestic electricity for amateurs. O. London and New York. 1885.

HOUSTON, EDWIN J.

The electric transmission of intelligence, and other advanced primers of electricity. D. New York and London, 1893.

HOWE, MALVERD A.

A treatise on arches. Designed for the use of engineers and students in technical schools. O. 1st Ed. New York and London, 1897.

HUGHES, HERBERT W.

A text-book of coal mining, for use of colliery managers and others. O. 4th Ed. London, 1901.

HUGHES, THOMAS

The practice of making and repairing roads; of constructing footpaths, fences, and drains. O. London, 1838.

HUTTON, CHARLES

A course of mathematics (in 3 Vols.). Vol. 1. O. 10th Ed. London, 1831.

HUTTON, FREDERICK REMSEN

The gas engine. A treatise on the internal combustion engine using gas, gasoline, kerosene, or other hydro-carbons as a source of energy. O. 1st Ed. New York and London, 1903.

Mechanical engineering of power plants. O. 1st Ed. New York and London, 1905.

HYATT, ALPHENS. (U. S. Geological Survey. Monograph 44.)

Pseudoceratites of the Cretaceous. Sq. Q. Washington, 1903.

HYNERS, J.

The elements of the theory of astronomy. O. 2nd Ed. Cambridge, 1840.

IDDINGS, J. P., et al. (U. S. Geological Survey. Monograph 32.)

Geology of the Yellowstone National Park. Part 2. Sq. Washington, 1899.

IHLSENG, M. C., AND WILSON, EUGENE B.

A manual of mining. O. 4th Ed. New York and London, 1905.

INNES, CHARLES H.

The centrifugal pump, turbines and water motors, including the theory and practice of hydraulics. D. London, 1893.

INSTITUTION OF CIVIL ENGINEERS

Catalogue of the library. 3 Vols. O. London, 1895.

Charter, supplemental charter, by-laws, and list of members. O. London, 1889—

Engineering education in the British dominions. Compiled from official sources. With regulations of the Institution of Civil Engineers as to the admission of students. O. London, 1891.

Minutes of proceedings. Vol. 59— (Supplement to Vol. 154 engineering conference, 1903.) O. London, 1880—

Minutes of proceedings. Subject index for Vols. 59-114, and 119-154. 6 Vols. O. London, 1893-1903.

Transactions. Vols. 1-3. 7 Vols. Sq. Q. London, 1836-1842.

INSTITUTION OF CIVIL ENGINEERS OF IRELAND

Transactions. Vol. 19— Dublin, 1889—

INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND

Transactions. Vols. 30-45. O. Glasgow, 1887-1892.

INSTITUTION OF MECHANICAL ENGINEERS

Proceedings O. London, 1887— (General index, 1885-1900, paper.)

INSTITUTION OF MINING AND METALLURGY

Transactions Vols. 1— O. London and New York, 1883—

INTERNATIONAL CONGRESS OF NAVIGATION

Report of Elmer L. Corthell, delegate of the United States to the seventh International Congress of Navigation. Held at Brussels, July, 1898. O. Washington, 1900.

INTERNATIONAL ELECTRICAL CONGRESS

Proceedings of the International Electrical Congress, held in the City of Chicago, August 21st to 25th, 1893. O. New York, 1894.

INTERNATIONAL ENGINEERING CONGRESS, GLASGOW, 1901.

Report of the proceedings and abstracts of the papers read. Edited by the general secretary, J. D. Cormack. O. Glasgow, 1902.

Proceedings. (Meeting held at the university, Glasgow, September 3, 4 and 5, 1901.) Section 1.—Railways. Section 2.—Waterways and Maritime works. 2 Vols. Q. London, 1902.

INTERNATIONAL GEOGRAPHICAL CONGRESS AND EXHIBITION

Report of the third International Geographical Congress and Exhibition, at Venice, Italy, 1881. Q. Washington, 1885.

IRON AND STEEL INSTITUTE

Journal. Vol. 39— (Supplement to 76, index 36-58.) O. London, 1891— Missing—Vols. 44, 45, 47-55.

Rules and list of members, 1900 and 1904. 2 Vols. Q. London, 1900-1904.

IRVING, ROLAND DUER, AND VAN HISE, CHARLES RICHARD

(U. S. geological survey. Monograph 18.)

The Penokee iron-bearing series of Michigan and Wisconsin. Q. Washington, 1892.

ISLER, C.

Well-boring for water, brine, and oil. A manual of current practice. O. London and New York, 1902.

JACKSON, DUGALD C.

A text-book on electro-magnetism and construction of dynamos.
Vol. 1. D. New York and London, 1901.

JACKSON, DUGALD C., AND JACKSON, JOHN PRICE

Alternating currents and alternating current machinery. (Vol. 2 of the text-book of electro-magnetism and construction of dynamos.) D. New York and London, 1902.

JACOBY HENRY S.

See Merriman, Mansfield, and Jacoby, Henry S.

JACQUET, L., JANICKI, S., AND PASQUEAU, A.

Improvement of non-tidal rivers. Tr. by Merrill, Bvt.-Col. Wm E., U.S.A. Washington, 1881.

JAMAICA AT CHICAGO—WORLD'S FAIR

An account descriptive of the Colony of Jamaica, with historical and other appendices. Compiled under Lt.-Col. C. T. Ward. Q. New York, 1893.

JAMES, ALFRED

Cyanide practice. 3rd Ed. Sq. O. London and New York (1903?)

JANICKI, S., JACQUET, L., et PASQUEAU, A.

Improvement of non-tidal rivers. Tr. by Bvt.-Col. Wm. E. Merrill, U.S.A. Sq. Q. Washington, 1881.

JERVIS, JOHN B.

Railway property. A treatise on the construction and management of railways. D. New York, 1861.

JOHNSON, EDWIN F.

Railway to the Pacific, northern route, its general character, relative merits.... O. 2nd Ed. New York, 1854.

JOHNSON, GEORGE A.

Report on sewage purification at Columbus, Ohio. Made to the chief engineer of the board of public service by the engineer in charge of the sewage testing station, Nov. 10, 1905. Q. 499 p. Columbus

JOHNSON, J. B.

Engineering contracts and specifications. O. 1st Ed. New York, 1895.

JOHNSON, J. B.

The materials of construction. A treatise for engineers on the strength of engineering materials. O. 3rd Ed. New York and London, 1900.

The theory and practice of surveying. Designed for the use of surveyors and engineers generally, but especially for students in engineering. O. 3rd Ed. New York, 1887.

JOHNSON, J. B. (Ed.)

The engineering index. Vols. 1 and 2, 1884-1891 and 1892-1895. 2 Vols. O. New York, 1896 and 1901.

JOHNSON, J. B., BRYAN, C. W., AND TURNEAURE, F. E.

The theory and practice of modern framed structures. Sq. Q. 6th Ed. New York, 1894.

JOHNSON, LEWIS J.

Statics, by algebraical and graphic methods. O. 1st Ed. New York, 1903.

JOHNSON, WALTER R.

Report of experiments on the evaporative power and other properties of coals. O.

JOHNSON, WILLIAM

The practical draughtsman's book of industrial design. Sq. Q. 2nd Ed. London, 1860.

JONES, FORREST R.

Machine design. Part 1. Kinematics of machinery. Part 2. Form, strength, and proportions of parts. 2 Vols. 3rd Ed. O. New York and London, 1905.

JUDSON, WILLIAM PIERSON

City roads and pavements, suited to cities of moderate size. O. 2nd Ed. New York, 1902.

From the West and Northwest to the sea by way of the Niagara ship canal. O. 1890.

JUNIOR ENGINEERING SOCIETY

Records of transactions. Vols. 3— O. London, 1893—

KAP, GISBERT

Electric transmission of energy and its transformation, subdivision, and distribution. D. London, 1894.

KATER, CAPTAIN HENRY, AND LARDNER, DIONYSIUS

A treatise on mechanics. D. London, 1839

KEEP, W. J.

Cast iron. A record of original research. O. 1st Ed. New York and London, 1902.

KEMP, JAMES FURMAN

The ore deposits of the United States and Canada. O. 5th Ed. New York and London, 1903.

KEMPE, H. R.

Hand-book of electric testing. O. 6th Ed. London and New York, 1900.

KENT, WILLIAM

Mechanical engineer's pocket book. S. 7th Ed. New York and London, 1904.

KIDDER, FRANK E.

The architect and builder's pocket book. Nar. S. New York and London, 1900.

KINGSFORD, WILLIAM

The Canadian canals; their history and cost, with an inquiry into the policy necessary to advance the well-being of the Province. O. Toronto, 1865.

KIRKALDY, DAVID

Results of an experimental inquiry into tensile strength and other properties of various kinds of wrought iron and steel. O. 2nd Ed. London, 1866.

KNOWLTON, F. H., et al. (U. S. Geological Survey. Monograph 32.)
Geology of the Yellowstone National Park. Part 2. Sq. Q. Washington, 1899

KONINKLIJK INSTITUUT VAN INGENIEURS

Gedenkboek. Memorial publié à l'occasion du cinquantième de l'institut Royal des ingénieurs Néerlandais. F¹. The Hague, 1899.

KUTTER, W. R., AND GANQUILLET, E.

A general formula for the uniform flow of water in rivers and other channels. O. New York and London, 1889.

LACHINE CANAL

Plans connecting Lake St. Louis and the harbour of Montreal
F. 1878.

LAMBOURN, ROBERT H.

A rudimentary treatise on the metallurgy of copper. D. London.
1860.

LARDNER, DIONYSIUS

Railway economy. D. London, 1850.

Railway economy in Europe and America. D. New York, 1850.

A rudimentary treatise on the steam engine. For the use of
beginners. D. London, 1848.

LARDNER, DIONYSIUS, AND KATER, HENRY.

A treatise on mechanics. D. London, 1830.

LAW, HENRY

The rudiments of civil engineering. For the use of beginners
Nar. D. London, 1848. Part 1.

LAWN, JAMES G.

Mine accounts and mine book-keeping. O. 3rd Ed. London.
1904.

LAX, W.

Tables to be used with a nautical almanac for finding the lati-
tude and longitude at sea. O. London, 1821.

LECHALAS, M. C.

Hydraulique fluviale. O. Paris, 1884.

LE COUNT, PETER

A practical treatise on railways. Nar. O. 1st Ed. Edinburgh
1839.

LEITH, CHARLES KENNETH. (U. S. Geological Survey. Mono-
graph 43.)

The Mesabi iron-bearing district of Minnesota. Sq. Q. Wash-
ington, 1903.

LESQUEREUX, LEO. (U. S. Geological Survey. Monograph 17.)

The Flora of the Dakota group. Ed. by F. H. Knowlton. Sq.
Q. Washington, 1891.

LEVERETT, FRANK. (U. S. Geological Survey. Monograph 41.)
Glacial formations and drainage features of the Erie and Ohio
basins. Washington, 1902.

LEWIS, J. F.

Permanent fortification for British engineers. O. Chatham,
1890.

LIVERPOOL ENGINEERING SOCIETY

Transactions. Vols. 9— O. Liverpool, 1889—

LIVERSIDGE, JOHN G.

Engine room practice, a hand book for the royal navy and mer-
cantile marine. D. London, 1899.

LOEWENSTEIN, LOUIS C. (Tr.)

The steam turbine, with an appendix on the gas turbine, and
the future of heat engines. O. 1st English Ed. New York and
London, 1905.

LOUDEN, J. C.

Encyclopaedia of architecture and furniture. O. New Ed.
London, 1835.

Louden's encyclopaedia of cottage, farm and villa architecture
and furniture. O. New Ed. London, 1853.

LOUIS, HENRY. (Tr.)

Hand-book of metallurgy. By Schnabel, Carl (Dr.). 2 Vols. O.
London and New York, 1898.

LOUIS, HENRY, AND PHILLIPS, J. ARTHUR

A treatise on ore deposits. O. 2nd Ed. London and New York,
1896.

LOWE, DAVID ALLAN

A pocket book for mechanical engineers. S. Revised Ed.
London, New York, and Bombay, 1903.

LUDLOW, WILLIAM. Engineer Dept. U. S. Army.

Report of a reconnaissance of the Black Hills of Dakota, made
in the summer of 1874. Sq. Q. Washington, 1875.

LYNDON, LAMAN

Storage battery engineering, a practical treatise for engineers
O. 2nd Ed. New York, 1903.

MACFIE, R. A.

Cries in a crisis, for statesmanship, popular, and patriotic, to
test and contest free-trade in manufactures O. 2nd Ed. London,
1881.

MACGREGOR, WILLIAM

Gas engines. D. London and New York, 1885

MACKENZIE, ALEXANDER

Report of current-meter observations in the Mississippi river,
near Burlington, Iowa, during the month of October, 1879. O.
Washington, 1884.

McLEAN, ANGUS

Local Industries of Glasgow and the west of Scotland. O.
Glasgow, 1901.

McLEOD, CLEMENT HENRY

Geometrical drawing. For the use of schools and colleges. Obl
D. Montreal, 1896.

McMILLAN, WALTER G., AND BORCHERS, DR. W.

Electric smelting and refining. O. 2nd English Ed. London, 1904

MAGRINI, EFFREN

Le abitazioni popolari. S. Milan, 1905.

MADE IN CANADA

Commercial and legal guide. O. Montreal, 1905

MAHAN, D. H.

An elementary course of civil engineering for the use of the
cadets of the United States military academy. O. New York,
1838.

MAIN, T. J., AND BROWN, THOMAS

The marine steam engine. Designed chiefly for the use of the
officers of Her Majesty's navy. O. 2nd Ed. London and Port-
sea, 1852.

MAINE, Legislature of

Documents in relation to the European and North American railway, published under the authority of a resolve of the legislature of Maine. O. Portland, 1851.

MANCHESTER ASSOCIATION OF ENGINEERS

Transactions. 1896— O. Manchester, 1891—

MAPS

Maps, reports, estimates, etc., relative to improvements of the navigation of the river St. Lawrence and a proposed canal connecting the R. St. L. and L. Champlain. 33 x 51 cm. Toronto, 1876.

MARKS, A. CROYDEN

Hydraulic power engineering. O. New York, 1900.

MASON, HOBART, AND SHELDON, SAMUEL

Dynamo-electric machinery, its construction, design, and operation. Direct current machines. D. 3rd Ed. New York and London, 1902.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Proceedings. 1879-1889. 2 Vols. O. Boston, 1879-1889.

Quarterly. Vols. 2-9, 1888-1896. 7 Vols. Q. Boston, 1888-1896.

Missing—Vol. 6, 1893.

MENSCH, L. J.

Architects' and engineers' hand-book of reinforced concrete construction. D. Chicago (1904?).

MERCHANTS' ASSOCIATION OF NEW YORK

An inquiry into the conditions relating to the water supply of the city of New York. O. New York, 1900.

MERRILL, E. A.

Electric lighting specifications, for use of engineers and architects. D. 2nd Ed. New York, 1896.

MERRILL, COL. WILLIAM E.

Iron truss bridges for railroads. F. New York, 1870.

MERRILL, WILLIAM E., BVT. -COL. U. S. A. (Tr.)

Improvement of non-tidal rivers Sq. Q. Washington, 1881.

MERRIMAN, MANSFIELD

Elements of sanitary engineering. O. 2nd Ed. New York and London, 1899.

An introduction to geodetic surveying. O. New York, 1892.

A text-book on the mechanics of materials, and of beams, columns, and shafts. O. 4th Ed. New York, 1892.

A text-book on retaining walls and masonry dams. O. New York, 1892.

MERRIMAN, MANSFIELD, AND JACOBY, HENRY S.

A text-book on roofs and bridges. 4 Vols. O. New York, 1891-1900.

Stresses in simple trusses. O. New York, 1891.

Graphic statics. O. 2nd Ed. 1893.

Bridge design. O. New York. 3rd Ed. 1900.

Higher structures. O. New York. 2nd Ed. 1899.

MERRIMAN, MANSFIELD

A treatise on hydraulics. O. 4th Ed. New York, 1893.

METCALFE, S. L.

Caloric, its agencies in the phenomena of nature. 2 Vols. O. London, 1843.

METEOROLOGICAL BUREAU AND WEATHER SERVICE OF THE STATE OF N. Y.

5th annual report, 1893. Vol. 2. 1894. O. Albany, 1894.

MILLER, EDWARD F., AND PEABODY, CECIL H.

Steam boilers. O. New York and London, 1904.

MILLAR, J. B.

Elements of descriptive geometry. D. 3rd Ed. London and New York, 1899.

MILLAR, W. J., AND WINTON, JOHN G.

Modern steam practice and engineering. 4 Vols. O. Philadelphia, 1883.

MINING INSTITUTE OF SCOTLAND

Transactions. Vols. 9-20. O. London and Newcastle. 1887-1898.

MISCELLANEA CURIOSA MATHEMATICA

Miscellanea Curiosa Mathematica, or the literary correspondence of some eminent mathematicians in Great Britain and Ireland. Q. London, 1749.

MOISSEIFF, LEON S., AND CONSIDERE, ARMAND.

Experimental researches on reinforced concrete. O. Authorized Ed. New York, 1903.

MOLESWORTH, SIR GUILDFORD L.

Pocket book of useful formulae and memoranda for civil and mechanical engineers. Obl. F. 22nd Ed. London and New York, 1888.

MONTREAL.

Rapport du Bureau des Travaux Publics, Montreal, December, 1844. F. Montreal, 1845.

MOORE, CHAS. (Ed.)

Purification of the Washington water supply. An enquiry held in direction of the United States senate committee on the district of Columbia. Edited by Charles Moore. O. Washington, 1901.

MOORE, COL. E. C. S.

Sanitary engineering. O. 2nd Ed. London, 1901.

MORISON, GEORGE, AND CHANUTE, O.

The Kansas City bridge, with an account of the regimen of the Missouri river, and a description of methods used for sounding in that river. Sq. Q. New York, 1870.

MORTON, A. C.

Report on the gauge for the St. Lawrence and Atlantic railroad. O. Montreal, 1847.

MORTON, J. C., AND SCOTT, JOHN

Le sol. Traduit de la 4ieme Ed. Anglaise par Henry, Gabriel. D. Quebec, 1897.

MOSELEY, HENRY

The mechanical principles of engineering and architecture. O. London, 1843.

MUNICIPAL ENGINEERS OF THE CITY OF NEW YORK

Proceedings. Vol. 1—, 1903— O. New York, 1904—

MUNRO, J.

Electricity and its uses. D. London (1883?)

NATIONAL CAR BUILDER

National Car Builder. 5 Vols. Sq. F. and Sq. F. 1876-1881
Missing—1881.

NEW CROTON AQUEDUCT

Report of the Aqueduct Commissioners by the President, containing reports of the secretary and of the engineer, Benjamin S. Church. 2 Vols. Sq. F. New York, 1887-1895.

NEW ORLEANS—Sewerage and Water Board.

Report on water purification investigation, and on plans proposed for sewerage and water works systems. O. New Orleans, 1903.

NEW YORK. Board of Aldermen.

Communication from the Superintendent of Buildings, transmitting his semi-annual report. O. New York, 1863.

NEW YORK—Legislative Assembly.

Report on the barge canal from the Hudson river to the Great Lakes, February 12, 1901, with maps and profiles. O. Albany, 1901.

NEW YORK—Railroad Commissioners.

Sixteenth annual report, for the fiscal year ending 30th June, 1898. 2 Vols. O. New York and Albany, 1899.

NEW YORK STATE—State Engineer and Surveyor.

Annual report of the State Engineer and Surveyor of the State of New York, and of the railroad corporations, 1866. O. Albany, 1867.

NEW YORK State Engineer.

Report on barge canal, 1901. Maps and profiles. Obl. O.

NEW YORK STATE MUSEUM

Annual report, 1887-1898. 19 Vols. O. Missing—1889. Albany, 1888-1899.

Bulletins, 1-10 and 35. 3 Vols. O. (B. 35. Q). Albany, 1888-1900.

NEWBERRY, JOHN STRONG. U. S. Geological Survey. Monographs
35
The later extinct floras of North America. Sq. Q. Washington
1898.

NICHOL, J. P.

The planetary system. O. London, 1850.

**NORTH-EAST COAST INSTITUTION OF ENGINEERS AND
SHIPBUILDERS**

Transactions. Vol. 5, 1888. O. Newcastle-upon-Tyne and London
1889

NOVA SCOTIAN INSTITUTE OF NATURAL SCIENCE

Proceedings and transactions. Vols. 5-8. O. Halifax, 1882-
1895

OCKERSON, J. A., AND TEEPLE, JARED

Tables showing difference of level in feet corresponding to a
given angle, when the distance is read in meters or feet. D.
Washington, 1879.

OHIO—Co-operative Topographic Survey.

Preliminary report, November 15, 1903. C. E. Sherman, inspec-
tor. O. Springfield, Ohio, 1904.

OMAHA

Annual report of the city engineer of the city of Omaha, Janu-
ary 1, 1894. O. Omaha, 1894.

ONTARIO—Bureau of Mines.

Report of the Bureau of Mines, printed by order of the Legisla-
tive Assembly of Ontario, 1891-1894. 4 Vols. O. Toronto, 1892.

ONTARIO—Department of Public Works.

Memorandum, with accompanying plans and documents relative
to the past and present state of the harbour of Toronto. Pre-
pared by direction of the Hon. H. L. Langevin. O. Ottawa, 1881.

ONTARIO—Royal Commission.

Report on the mineral resources of Ontario and measures for
their development. O. Toronto, 1890.

ORAM, HENRY J., AND SENNETT, RICHARD

The marine steam engine. O. London, New York, and Bombay, 1898.

OSBORN, FRANK C.

Osborn's tables of moments and squares of radii of gyration. D. Cleveland, 1886.

OSBORN, H. S.

The metallurgy of iron and steel, theoretical and practical, in all its branches. O. London, 1869.

ODIN, MAURICE A.

Standard polyphase apparatus and systems. O. 4th Ed. New York and London, 1904.

OVERMAN, FREDERICK

Practical mineralogy, assaying, and mining, with description of the useful minerals. D. 6th Ed. Philadelphia, 1863.

The manufacture of iron in all its various branches. O. Philadelphia, 1850.

PAINE, TIMOTHY OTIS

Solomon's temple. 2 Vols. Sq. F. Boston, 1886.

PAMBOUR, COMTE F. M. G.

A practical treatise on locomotive engines. O. 2nd Ed. London, 1840.

PARSONS, H. DE B.

on boilers, their theory and design. O. New York and Bombay, 1903.

PASQUEAU, A., JANICKI, S., et JACQUET, L.

Improvement of non-tidal rivers. Tr. by Merrill, Bvt.-Col Wm E., U.S.A. Sq. Q. Washington, 1881.

PATENT OFFICE LIBRARY

Catalogue. Vol. 1. Authors. Sq. Q. London, 1898.

PATENTS FOR INVENTIONS

Abridgements of specifications relating to railway signals and communicating apparatus. D. London, 1869.

PATERSON, G. W. LUMMIS

Management of dynamos. D. London, 1903.

PATTON, W. M.

A treatise on civil engineering. O. 2nd Ed. New York, 1899.

A practical treatise on foundations, explaining fully the principles involved. O. 1st Ed. New York and London, 1898.

PEABODY, CECIL H.

Naval architecture. O. 1st Ed. New York and London, 1904.

Tables of the properties of saturated steam and other vapours. O. 6th Ed. New York and London, 1900.

PEABODY, CECIL H., AND MILLER, EDWARD F.

Steam boilers. O. New York and London, 1904.

PEALE, LOUIS T.

The history of the American locomotive. Sq. F. Philadelphia, 1857.

PENNSYLVANIA, COMMONWEALTH OF

Annual report of the board of canal commissioners, with accompanying documents, for the fiscal year ending November 30, 1852. O.

PERCY, JOHN

Metallurgy, iron and steel. O. London, 1864.

PERLEY, H. F., AND STECKEL, R.

Reports on the geodetic levelling between Lake Champlain and tidewater in the St. Lawrence. O. (Ottawa, 1884.)?

Rapports sur le nivellement geodesique, entre le lac Champlain et l'onde marée du St. Laurent. O. (Ottawa, 1884.)?

PERRINE, F. A. C.

Conductors for electric distribution, their materials and manufacture. O. New York and London, 1903.

PHILADELPHIA—Chief Engineer Water Department.

Report for the year 1884. O. Philadelphia, 1885.

PHILLIPS, J. ARTHUR

The mining and metallurgy of gold and silver. Q. London, 1867.

PHILLIPS, J. ARTHUR, AND LOUIS, HENRY

A treatise on ore deposits. O. 2nd Ed. London and New York. 1896.

PHILOSOPHICAL SOCIETY OF GLASGOW.

Proceedings. Vols. 17— O. Glasgow, 1886—
Missing—Vol. 31.

PHOTOGRAPHS

Photographs of South African bridges destroyed in the Boer war. 1902.

PIERCE, BENJAMIN

Physical and celestial mechanics. Sq. Q. Boston, 1855.

PITTSBURG—Filtration Commission.

Report of the Filtration Commission of the city of Pittsburg, Pennsylvania. O. 1899.

POOR, h. V.

Manual of the railroads of the United States, 1868-1870. 2 Vols. O. New York, 1868-1870.

PORTLOCK, COL.

A rudimentary treatise on geology, for the use of beginners. O. London, 1848.

POSEPNY, FRANZ

The genesis of ore deposits. O. 2nd Ed. New York, 1902.

PRACTICAL MECHANIC AND ENGINEER'S MAGAZINE

Practical mechanic and engineer's magazine. 3 Vols. Q. New York, 1841-1847.

PRACTICAL MECHANICS' JOURNAL

Record of the great Paris exhibition, 1862. Sq. Q. London (1862.)?

PRACTICAL MINERS' GUIDE

Practical miners' guide. O. 2nd Ed. New York, 1860.

PRAY, THOMAS, JR.

Twenty years with the indicator. Q. New York, 1902.

PRELINI, CHARLES, AND HILL, CHARLES S.

Tunnelling, a practical treatise. O. 2nd Ed. New York, 1902.

PRINCIPLES OF MECHANICS

The principles of mechanics, explaining and demonstrating the laws of mechanics. Sq. O. 4th Ed. London, 1794.

PROGRESS OF THE CENTURY

The progress of the century. O. New York and London, 1901.

PUMPELLY, RAPHAEL, WOLF, J. E., AND DALE, T. N. (U. S. Geological Survey. Monograph 23.)

Geology of the Green Mountains in Massachusetts. Sq. Q. Washington, 1894.

PYNE, GEORGE

Rudimentary perspective for the use of beginners. Parts 1 and 2. D. London, 1848.

QUEBEC, City of

Report of Chevallier C. Baillairgé, engineer of the city of Quebec, on the amelioration of its aqueduct. O. Quebec, 1881.

QUEBEC—Commissioners of Public Works.

Report of the commissioners of public works, 1851-1859. O. Quebec.

RAFTER, GEORGE W. (N. Y. State Museum, Bulletin 85.)

Hydrology of the state of New York. O. Albany, 1905.

RAFTER, GEORGE W., AND BAKER, M. N.

Sewage disposal in the United States. O. 3rd Ed. New York and London, 1900.

RAILROAD GAZETTE

Railroad Gazette, 1870-1885 and 1892-1896. 15 Vols. F^m. New York, 1876-1896.

Recent locomotives. Reprinted from the Railroad Gazette. F^m New York, 1883.

RAILWAY AND CANAL REPORTS, 1850-1855.

Railway and Canal reports. (Collected and bound pamphlets.) 6 Vols. O. 1850-1855.

RAILROAD AND ENGINEERING JOURNAL

See American Engineering and Railroad Journal.

RAILWAY ENGINEER

Railway Engineer. Vols. 1 and 2. 2 Vols. F. London 1880-1881.

RAILWAY REPORTS, 1855.

Railway reports. Q.

RAND, McNALLY & COMPANY

Indexed atlas of the world, with 275 illustrations, historical, descriptive, statistical. 2 Vols. 39 x 53 cm. Chicago, New York, London, and Berlin, 1905.

RANKINE, WILLIAM JOHN MACQUORN

A manual of applied mechanics. D. 10th Ed. London, 1882.

A manual of civil engineering. D. 7th Ed. London, 1871.

A manual of machinery and mill work. D. 5th Ed. London, 1883.

A manual of the steam engine and other prime movers. D. 10th Ed. London, 1882.

Useful rules and tables relating to mensuration, engineering structures, and machines. D. 6th Ed. London, 1883.

RANKINE, WILLIAM JOHN MACQUORN, AND BAMBER, EDWARD FISHER

A mechanical text-book or introduction to the study of mechanics. D. London, 1875.

REAGAN, H. C.

Locomotives, simple, compound, and electric. D. 4th Ed. New York, 1903.

REDGRAVE, GILBERT R., AND SPACKMAN, CHARLES

Calcareous cements, their nature, manufacture and uses, with some observations on cement testing. O. 2nd Ed. London, 1905.

REILLY, M. F., DREDGE, JAMES, AND VIVAREZ, H.

Electric illumination. 2 Vols. Sq. Q. London and New York, 1885.

REINHARDT, CHARLES W.

The technic of mechanical draughting. Obl. O. 1st Ed. New York, 1900.

REIS, HEINRICH. (New York State Museum, Bulletin 35.)

Clays of New York, their properties and uses. Q. Albany, 1900

RENNIE, SIR JOHN

The theory, formation, and construction of British and foreign harbours. 2 Vols. 60 x 43 cm. London, 1854.

REULEAUX, F.

The constructor. A hand-book of machine design. Sq. F. From the 4th Ger. Ed. New York, 1902.

REVV, J. J.

Hydraulics of great river. The Parana, Uruguay, and the La Plata estuary. Sq. F. London and New York, 1874.

RICHARD, G. TOM.

Aide-memoire, general et alphabetique, des ingenieurs, with atlas. 3 Vols. O. Paris, 1848.

RICHARDS, FRANK

Compressed air. D. 1st Ed. New York and London, 1902.

RICHARDS, ROBERT H.

Ore dressing. O. 1st Ed. New York and London, 1903.

RICHARDS, WILLIAM

A practical treatise on the manufacture and distribution of coal gas. London, 1877.

RICHARDSON, H. H.

The Billings library, the gift to the university of Vermont of Fred. Billings. 37 x 47 cm. Portfolio of photogravures. Boston.

RICKARD, T. A.

The sampling and estimation of ore in a mine. O. 1st Ed. New York and London, 1904.

The stamp milling of gold ores. O. 3rd Ed. New York and London, 1901.

RITCHIE, J. WM., AND CHAUSSE, ALCIDE

Building inspectors' hand-book of the city of Montreal. D. Montreal, 1901.

RIVER ST. LAWRENCE

Maps, reports, estimates, etc., relative to improvement of the navigation of the river St. Lawrence, and a proposed canal connecting the R. St. L. and Lake Champlain. 50.5 x 34 cm. Toronto, 1856.

ROADS AND RAILROADS

Roads and Railroads. D. London.

ROBERTS-AUSTEN, SIR W. C.

An introduction to the study of metallurgy. O. 5th Ed. London, 1902.

ROBINSON, HENRY

Hydraulic power and hydraulic machinery. O. 3rd Ed. London, 1904.

ROGERS, ARUNDEL

The law relating to mines, minerals, and quarries in Great Britain and Ireland. O. London, 1864.

ROGERS, WILLIAM

Pumps and hydraulics. 2 Vols. O. New York and London, 1905.

ROMA—Città Di

Atti della commissione istituita per studiare e proporre i mezzi de rendere le Piene del Tevere innocue. D. Rome, 1872.

ROSE, T. KIRKE

The metallurgy of gold. O. 4th Ed. London, 1892.

ROSE, JOSHUA

Modern machine-shop practice. 2 Vols. Sq. F. New York, 1888.

ROYAL ARTILLERY INSTITUTION

Minutes of proceedings. Vols. 15-23. 9 Vols. O. Woolwich, 1888-1896.

Miscellaneous. O. Woolwich.

ROYAL ENGINEERS, CORPS OF

Professional papers. Series 1—Vol. 1-10. (Vols. 1 and 2 in 1st and 2nd Eds.). Sq. Q. London, 1844-1849.

Series 2—Vol. 1 Index for 1887-1892. O. London, 1878.
Missing—Vol. 7.

ROYAL ENGINEERS' INSTITUTE

Detailed history of the railways in the South African war, 1899-1902. 2 Vols. F. Chatham, 1904.

ROYAL INSTITUTION OF BRITISH ARCHITECTS

Proceedings. Vols. 5-6. Sq. Q. London, 1890.

Transactions. Vol. 5. Sq. Q. London, 1889.

ROYAL SCOTTISH SOCIETY OF ARTS

Transactions. Vols. 12 and 13. O. Edinburgh, 1891-1894.

ROYAL SOCIETY OF CANADA

Proceedings and transactions. 1st series—Vols. 1-11. Sq. Q. Montreal, 1883-1893. Vols. 11-12. Sq. Q. Ottawa, Toronto, and London, 1893-1894. 2nd series—Vols. 1— Q. Ottawa, Toronto, and London, 1895—

ROYAL SOCIETY OF EDINBURGH

Proceedings. Vols. 14-23. 1886. O. Edinburgh, 1888.

RUSSELL, H. L., AND TURNEAURE, F. E.

Public water supplies, requirements, resources and construction of works. O. 1st Ed. New York and London, 1901.

RUTHERFORD, ERNEST

Radioactivity. 2nd Ed. O. Cambridge, 1905.

SABIN, LOUIS CARLTON

Cement and concrete. O. 1st Ed. New York, 1905.

SAFFORD, T. H. (Engineer Department U. S. Army.)

Catalogue of the mean declinations of 981 stars, between 12 hours and 26 hours of right ascension, and 30° and 60° of north declination, for January 1, 1875. Sq. Q. Washington, 1873.

ST. LAWRENCE SHIP CHANNEL

Official documents and other information relating to the improvements of the ship channel between Montreal and Quebec, 1884.

ST. LOUIS—City Council.

Mayor's message, with accompanying documents, to the city council of the city of St. Louis, at its May session. O. St. Louis, 1872.

SANDRINELLI, DR. GUIDO

Resistenza dei materiali e stabilita della costuzioni ad uso degli ingegneri, capomastri, costruttori, ecc. Edizione completamente rinnovata del manuale del defunto Pietro Gallizia. D. Milan, 1905.

SANFORD, P. GERALD

Nitro-explosives. A practical treatise concerning the properties, manufacture, and analysis of nitrated substances. D. London, 1896.

SAUNDERS, W. L.

Compressed air information, or a cyclopadia containing practical papers on production, transmission, and use of compressed air. O. New York, 1903.

SCHINZ, CHARLES

Researches on the action of the blast furnace. D. London, 1870.

SCHNABEL, DR. CARL

Hand-book of metallurgy. Translation by Louis, Henry. 2 Vols. O. London and New York, 1898.

SCHOOL OF MINES, COLUMBIA UNIVERSITY

School of Mines Quarterly, a journal of applied science. Vols 12 and 13. O. New York, 1891-1892.

SCHUYLER, JAMES DIX

Reservoirs for irrigation, water power, and municipal water supply. Q. 1st Ed. New York and London, 1901.

SCIENTIFIC AMERICAN

Vols. 1-15. F. 1868-1882. Missing—Vols. 12 and 13.

SCOTT, JOHN, AND MORTON, J. C.

Le sol. Traduit de la 4ieme Ed. Anglaise, par Henry, Gabriel. D. Quebec, 1897.

- SCUDDER, SAMUEL HUBBARD.** (U. S. Geological Survey. Monographs 40 and 21.)
 Adepagous and clavicorn coleoptera from the tertiary deposits at Florissant, Colorado. Sq. Q. Washington, 1900.
 Tertiary rhynchophorous coleoptera of the United States. Q. Washington, 1893.
- SEARLES, WILLIAM A.**
 Field engineering. S. 16th Ed. New York, 1904.
- SEATON, A. E.**
 A manual of marine engineering, comprising the design, construction, and working of marine machinery. O. 15th Ed. London, 1904.
- SENNETT, RICHARD, AND ORAM, HENRY J.**
 The marine steam engine. O. London, New York and Bombay, 1898.
- SEXTON, A. HUMBOLDT**
 Fuel and refractory materials. D. London, 1897.
- SHALER, N. S., WOODWORTH, J. B., AND FOERSTE, A. F.** (U. S. Geological Survey. Monograph 33.)
 Geology of the Narragansett basin. Sq. Q. Washington, 1899.
- SHALER, N. S.**
 American highways. A popular account of their conditions and of the means by which they may be bettered. O. New York, 1896.
- SHANLY, WALTER**
 Report on the Port Huron and Lake Michigan (Michigan Northern), Railway. O. Toronto, 1854.
- SHANNON RIVER**
 Fourth report of the commissioners for the improvement of the river Shannon. F. Dublin, 1839.
- SHANNON RIVER NAVIGATION**
 Letter from Col. John F. Burgoyne to the Rt. Hon. John Cam Hobhouse. F. 1833.

SHELDON, SAMUEL, AND MASON, HOBART

Dynamo electro machinery, its construction, design, and operation. Direct current machines. D. 3rd Ed. New York and London, 1902.

SHERWIN'S MATHEMATICAL TABLES

Sherwin's mathematical tables. Revised and corrected by William Gardiner. O. 3rd Ed. London, 1742.

SHUFFELT, CAPT. ROBERT W.

Reports on explorations and surveys to ascertain the practicability of a ship canal between the Atlantic and Pacific oceans by the way of the Isthmus of Tehuantepec. Sq. Q. Washington, 1872.

SIMMS, FREDERICK WALTER

Practical tunnelling. Q. 3rd Ed. London, 1877.

Public works of Great Britain. 56 x 38 cm. London, 1838.

A treatise on the principles and practice of levelling. O. 3rd Ed. London, 1846.

SIMONIN, L.

La vie souterraine, ou les mines et les mineurs. Q. Paris, 1867.

SINCLAIR, ANGUS

Locomotive engine running and management. D. 21st Ed. New York and London, 1904.

SKINNER, FRANK W.

Types and details of bridge construction. Part 1. Arch spans. O. New York, 1904.

SMEATON, JOHN

Reports of the late John Smeaton, made on various occasions in the course of his employment as a civil engineer. Vol. 1. Sq. Q. 2nd Ed. London, 1837.

SMEE, ALFRED

Elements of electro-metallurgy, or the art of working metals by the galvanic fluid. O. London, 1841.

SMILES, SAMUEL

James Brindley and the early engineers. D. London, 1864.
 Life of George Stephenson, railway engineer. O. 3rd Ed. London, 1857.

SMITH, HAMILTON, JR.

The flow of water through orifices, over weirs, and through open conduits and pipes. Sq. F. New York, 1886.

SMITH, JAMES PERRIN. (U. S. Geological Survey. Monograph 42.)
 The carboniferous ammonoids of America. Sq. Q. Washington, 1903.

SMITHSONIAN INSTITUTION

Annual report of the Board of Regents, 1854; 1885, Part 2; 1886, Part 1. 3 Vols. O. Washington, 1855, 1886, 1889.

SMOLEY, CONSTANTINE

Smokey's tables, containing parallel tables of logarithms and squares. D. 2nd Ed. New York, 1902.

SMYTH, HENRY LLOYD, AND CLEMENTS, J. M. (U. S. Geological Survey. Monograph 36.)

The Crystal Falls iron-bearing district of Michigan, etc. Sq. Q. Washington, 1899.

SOCIETE DES INGENIEURS CIVILS

Memoires et compte rendu des travaux. O. Paris, 1889—

SOCIETY OF ARTS

Journal. Vols. 36-44. (1887-1896.) 9 Vols. Q. London, 1888-1896.

SOCIETE SCIENTIFIQUE INDUSTRIELLE DE MARSEILLE

Bulletin. Tome 14-27. 14 Vols. O. Marseille, 1886-1899.

SOCIETY OF ENGINEERS

Transactions and general index, 1886— O. London, 1887—

SOUTH WALES INSTITUTE OF ENGINEERS

Proceedings. Vol. 16— O. London, 1890—

SPACKMAN, CHARLES, AND REDGRAVE, GILBERT R.

Calcareous cements, their nature, manufacture, and uses, with some observations on cement testing. O. 2nd Ed. London, 1905.

SPALDING, FRED. P.

Hydraulic cement, its properties, testing and use. D. 1st Ed. New York and London, 1904.

SPURR, JOSIAH EDWARD. (U. S. Geological Survey. Monograph 31.)

Geology of the Aspen mining district, Colorado, with atlas Sq. Q. Washington, 1898. Atlas—56 x 46.5 cm.

SPONS' MECHANIC'S OWN BOOK

Spons' mechanic's own book. A manual for handicraftsmen and amateurs. O. 6th Ed. London and New York, 1905.

STALEY, CADY, AND GILLESPIE, W. M.

A treatise on surveying, comprising the theory and practice 1—Land surveying and direct levelling. 2—Higher surveying. 2 Vols. O. New York, 1902.

STANLEY, WILLIAM FORD

Mathematical drawing instruments. D. 6th Ed. London and New York, 1888.

Surveying and levelling instruments theoretically and practically described. D. 2nd Ed. London and New York, 1895.

STANTON, J. W., et al. (U. S. Geological Survey. Monograph 32.)

Geology of the Yellowstone National Park. Part 2. Sq. Q. Washington, 1899.

STECKEL, R.

Essay on the contracted liquid vein, affecting the present theory of hydraulics. O. Ottawa, 1884.

Etude sur la veine liquide contractee, tendant a modifier la theorie actuelle de l'hydraulique. O. Ottawa, 1884.

STECKEL, R., AND PERLEY, H. F.

Rapports sur le nivellement geodesique entre le lac Champlain et l'onde maree du Saint Laurent. O. Ottawa (1884?).

Reports on the geodetic levelling between lake Champlain and tidewater in the St. Lawrence. O. Ottawa (1884?).

STEINMETZ, CHARLES PROTEUS

The elements of electrical engineering. O. 2nd Ed. New York, 1902.

STEINMETZ, CHARLES PROTEUS, AND BERG, ERNST J.

Theory and calculation of alternating current phenomena. O. 3rd Ed. New York, 1906.

STEVENSON, ALLAN

A rudimentary treatise on the history, construction, and illumination of lighthouses. D. London, 1850.

STEVENSON, DAVID

Sketch of the civil engineering of North America. O. London, 1838.

Remarks on the improvement of tidal rivers. O. London and Edinburgh, 1845.

STEVENSON, THOMAS

The design and construction of harbours. A treatise on maritime engineering. O. 2nd Ed. Edinburgh, 1874.

STEWART, BALFOUR

The conservation of energy. D. Am. Ed. New York, 1875.

STODOLA, DR. A.

The steam turbine, with an appendix on the gas turbine and the future of heat engines. O. 1st English Ed. New York and London, 1905.

STONE, GEORGE H. (U. S. Geological Survey. Monograph 34.)

The glacial gravels of Maine and their associated deposits. Sq. Q. Washington, 1899.

STONE, BINDON B.

The theory of strains in girders and similar structures. 2 Vols. 2nd Ed. London, 1869.

STUART, BERNARD

How to become a successful engineer. S. 2nd Ed. Edinburgh, 1866.

STUDENT'S GUIDE TO THE LOCOMOTIVE ENGINE

Student's guide to the locomotive engine. O. London, 1849.

STURTEVANT, B. F. COMPANY

Mechanical draft, a practical treatise. O. Boston, 1898.

SWENSON, BERNARD, AND FRANKENFIELD, BUDD.

Testing of electro-magnetic machinery and other apparatus.
Vol. 1. Direct Currents. O. New York, 1904.

SWINBURNE, JAMES

Practical electrical measurements. O. London and New York, 1888.

SWINDELL, JOHN GEORGE

Rudimentary treatise on well-digging, boring.... D. London, 1849.

SUPLEE, HENRY HARRISON (Tr.)

The constructor. A hand-book of machine design. Sq. F. From 4th Ger. Ed. New York, 1902.

SYMONS, LIEUT. THOMAS W.

Report of an examination of the upper Columbia river and the territory in its vicinity in 1881, to determine its navigability, ... Q. Washington, 1882.

TAIT, W. A.

Edinburgh and district water. Notes regarding the old and new works. O. Edinburgh, 1905.

TALBOTT, E. H., AND HOBART, H. R.

The biographical directory of the railway officials of America. O. Chicago and New York, 1885.

TAYLOR, ANDREW T.

The towers and steeples designed by Sir Christopher Wren. O. London, 1881.

TAYLOR, FREDERICK W., AND THOMPSON, S. E.

A treatise on concrete, plain and reinforced. O. 1st Ed. New York and London, 1904.

TECHNICAL SOCIETY OF THE PACIFIC COAST

Transactions. 1 Vol. O. San Francisco, 1888.

TEEPLE, JARED, AND OCKERSON, J. A.

Tables showing difference of level in feet, corresponding to a given angle, when the distance is read in meters or feet. D. Washington, 1879.

TELFORD, THOMAS, C. E.

Atlas to the life of Thomas Telford, C.E. 61½ x 45 cm. London, 1838.

THOMPSON, SANDFORD E., AND TAYLOR, F. W.

A treatise on concrete, plain and reinforced. O. 1st Ed. New York and London, 1904.

THOMPSON, SYLVANUS PHILLIPS

Polyphase electrical currents and alternate current motors. O. 2nd Ed. New York and London, 1900.

Elementary lessons in electricity and magnetism. D. New Ed. London, 1902.

Dynamo-electrical machinery. A manual for students of electro-technics. 'O. London and New York, 1884.

Design of dynamos. O. London and New York, 1903.

THOMSON, J. J.

Electricity and matter. O. New York, 1904.

THOMSON, W. CHASE

Bridge and structural design. O. New York, 1906.

THURSO, JOHN WOLFF

Modern turbine practice and water-power plants. O. New York, 1905.

THURSTON, ROBERT H.

Conversion tables of metric and British or U. S. weights and measures. O. New York, 1883.

A text-book of the materials of construction. For use in technical and engineering schools. O. 2nd Ed. New York, 1886.

THE TIMES ATLAS

Containing 132 pages of maps, and comprising 196 maps and an alphabetical index to 150,000 names. 44 x 29½ cm. London, 1900.

TOMLINSON, CHARLES

Rudimentary mechanics, for the use of beginners. D. London, 1849.

TORONTO—City Engineer.

Annual report for 1899. Q. Toronto, 1900.

DE LA TOUR, HENRI BOY

The induction motor. O. New York, 1903.

TOWER, F. B.

Illustrations of the Croton aqueduct. Sq. F. New York and London, 1843.

TRAUTWINE, JOHN C.

Civil engineers' pocket book. S. 16th Ed. New York and London, 1894.

The field practice of laying out circular curves for railroads. D. 13th Ed. New York, 1887.

A new method of calculating the cubic contents of excavations and embankments by the aid of diagrams. O. 1st Ed. Philadelphia, 1851.

A new method of calculating the cubic contents of excavations and embankments by the aid of diagrams. O. 2nd Ed. Philadelphia, 1853.

A new method of calculating the cubic contents of excavations and embankments by the aid of diagrams. O. 9th Ed. 1887.

TREDGOLD, THOMAS

Elementary principles of carpentry. Sq. Q. 5th Ed. London, 1870.

Marine engines and boilers, exemplified in numerous examples of English and American steam vessels, with descriptive text by eminent engineers. Q. London and New York.

Locomotive and stationary engines, the principles and practice of their construction exemplified in numerous examples, with descriptive text by eminent engineers. Sq. F. London, 1850.

The steam engine, its invention and progressive movement, an investigation of its principles and its application to navigation, manufactures and railways. 2 Vols. Sq. F. New Ed. London, 1838.

TRIP

A trip to the suspension bridge over the Menai straits to Carnarvon, the lakes of Llanberris, Snowdon, Beddgelert, Capel Cerig.... O. Stockport, 1827.

TRURAN, W.

The iron manufacture of Great Britain. Sq. F. 2nd Ed. London, 1862.

The iron manufacture of Great Britain. Sq. F. 3rd Ed. London, 1865.

TURNEAURE, F. E., AND RUSSELL, H. L.

Public water supplies, requirements, resources, and construction of works. O. 1st Ed. New York and London, 1901.

TURNEAURE, F. E., JOHNSON, J. B., AND BRYAN, C. W.

The theory and practice of modern framed structures. Sq. Q. 6th Ed. New York, 1894.

TURNER, THOMAS

The metallurgy of iron. O. 2nd Ed. London, 1904.

TYNDALL, JOHN

Heat, a mode of motion. O. 3rd Ed. London, 1868.

Notes of a course of seven lectures on electrical phenomena and theories, delivered at the Royal Institution of Great Britain. D. New Ed. London, 1876.

TYRRELL, H. G.

Mill building construction. O. New York, 1901.

UNDERHILL, JAMES

Mineral land surveyor. O. New York, 1906.

UNITED STATES ARMY, Corps of Engineers. (Professional papers.)

Report on the North Sea canal of Holland, and on the improvement of navigation from Rotterdam to the sea. By Barnard, J. G. Sq. Q. Washington, 1872.

Report of the board of engineer officers on testing hydraulic cements, with specifications for the several classes used by the engineer department. O. Washington, 1901.

Primary triangulations, United States Lake Survey. F. Washington, 1882.

Notes on mitering lock gates. By Hodges, Harry F. Sq. Q. Washington, 1892.

Report of a reconnaissance of the Black Hills of Dakota, made in the summer of 1874. By Ludlow, William, Captain. Sq. Q. Washington, 1875.

UNITED STATES ARMY, Engineer Department.

Catalogue of the mean declinations of 981 stars between 12 hours and 26 hours of right ascension, and 30 degrees and 60 degrees of north declination, for January 1, 1875. By Stafford, Prof. J. H. Sq. Q. Washington, 1873.

The United States Army Engineering Department at the International Exhibition, 1876. By Captain D. P. Heap, Corps of Engineers, in charge of the engineer section. O. Washington, 1884.

UNITED STATES Census

Tenth census of the United States. 3 Vols. F. Washington, 1883.

Compendium of the tenth census of the United States, 1880. 2 Vols. O. Washington, 1885.

UNITED STATES Department of Agriculture.

Year book of the United States Department of Agriculture, 1895. O. Washington, 1896.

UNITED STATES Department of the Interior.

Reports of explorations and surveys to ascertain the most practicable and economical route for a railroad from the Mississippi river to the Pacific Coast, made, etc., in 1853-6. 6 Vols. Sq. Q. Washington, 1857.

UNITED STATES Geological Survey

Annual report, 1884— Q. Washington, 1885—
Monographs.

UNITED STATES Geological Survey of Montana, and Portions of the Adjacent Territories. Hayden, F. V., Geologist.

Preliminary report, being the fifth annual report of progress. O. Washington, 1872.

UNITED STATES House of Representatives.

Appropriations and expenditures for rivers and harbours—
United States reports, 1789-1883. Sq. Q. Washington, 1884.

UNITED STATES Lighthouse Board.

Report of the officers constituting the Lighthouse board, to enquire into the condition of the lighthouse establishment of the United States, etc. O. Washington, 1852.

UNITED STATES Naval Institute.

Proceedings. Vols. 14-24. 1888-1898. 11 Vols. O. Annapolis, 1888-1898.

UNITED STATES Senate.

Topographical engineers' report on river and harbour improvements on the Great Lakes. O. Washington, 1858.

Committee on the district of Columbia.

Purification of the Washington water supply. O. Washington, 1901.

UNITED STATES Treasury Department.

Annual report of the chief of the bureau of statistics on the commerce and navigation of the United States, for the fiscal year ended June 30, 1878. Part 1. Foreign Commerce. O. Washington, 1878.

UNITED STATES War Department.

Reports of tests of metals and other materials for industrial purposes, made with U. S. testing machine at Watertown arsenal, 1884, 1886, 1889. 4 Vols. O. Washington, 1886-9-90.

UNITED SERVICE INSTITUTION

Journal. Vols. 32-40. 1888-1896. 9 Vols. O. London, 1889-1896.

UNIVERSITY OF THE STATE OF NEW YORK

A memoir on the paleozoic reticulate sponges of dictyospongiae. Sq. F. New York and Albany, 1898. By James Hall and John M. Clarke.

UNWIN, W. CAWTHORNE

Elements of machine design. 2 Vols. D. New Ed. London, New York, and Bombay, 1900.

UPHAM, WARREN. (U. S. Geological Survey. Monograph 25.)

The glacial lake Agassiz. Sq. Q. Washington, 1895.

**VAN HISE, CHARLES RICHARD, BAYLEY, WILLIAM SHIRLEY,
AND SMITH, HENRY LLOYD.** (U. S. Geological Survey.
Monograph 28.)

The Marquette iron-bearing district of Michigan. Sq. Q. Wash-
ington, 1897. With atlas, 56 x 46.5 cm.

VAN HISE, CHARLES RICHARD, AND IRVING, R. D. (U. S.
Geological Survey. Monograph 19.)

The Penokee iron-bearing district of Michigan and Wisconsin.
Sq. Q. Washington, 1892.

VAN HISE, CHARLES RICHARD. (U. S. Geological Survey. Mono-
graph 47.)

A treatise on metamorphism. Sq. Q. Washington, 1904.

VAN NOSTRAND'S ECLECTIC ENGINEERING MAGAZINE

Van Nostrand's Eclectic Engineering Magazine, 1869-1880. 18
Vols. Q. New York. Also Vols. 1-15. 8 Vols. New York,
1869-1876.

VAN OTT, CARL

The elements of graphic statics. Translated by Clarke, G.S.
D. London and New York, 1885.

VON ROSENBERG, LEO

The Vosburg tunnel. A description of its construction. Q. New
York, 1887.

VAUGHN, T. WAYLAND. (U. S. Geological Survey. Monograph 39.)

The eocene and lower oligocene coral faunas of the United
States. Sq. Q. Washington, 1900.

VERNE, JULES

The great explorers of the nineteenth century. O. New York,
1887.

VICTORIAN INSTITUTE OF SURVEYORS

Transactions and proceedings. Vol. 1— O. Melbourne, 1891—
Missing—Vol. 2.

VIGREUX, CHARLES, AND BARRE, L. A.

Notes et formules de l'ingenieur, du constructeur, du mecanicien,
metallurgiste, et electricien. D. 11th Ed. Paris, 1897.

VINCE, S.

The elements of astronomy. O. 4th Ed. Cambridge, 1816.

VIVAREZ, H., DREDGE, JAMES, AND REILLY, M. F.
Electric illumination. 2 Vols. Sq. Q. London and New York,
1885.

WADDELL, JOHN ALEXANDER LOW

De pontibus. S. 1st Ed. New York and London, 1898.

The designing of ordinary iron highway bridges. O. New York,
1884.

Memoirs of the Tôkiô Daigaku. A system of iron railroad
bridges for Japan. Vol. 1—Text. Vol. 2—Tables and plates. 2
Vols. Q. Tôkiô, 1885.

Principal professional papers. Ed. by J. L. Harrington. O. 1st
Ed. New York, 1905.

WAKE, H. H.

Sunderland harbour and docks. Plans and papers. F. (1881.)?

WALCOTT, CHARLES DOOLITTLE. (U. S. Geological Survey.
Monograph 30.)

Fossil medusæ. Sq. Q. Washington, 1898.

WALCOTT, CHARLES DOOLITTLE, et al. (U. S. Geological Survey.
Monograph 32.)

Geology of the Yellowstone National Park. Part 2. Sq. Q.
Washington, 1899.

WALLIS-TAYLOR, A. J.

Refrigeration, cold storage, and ice-making. O. New York and
London, 1902.

WARD, LESTER F. C., FONTAINE, WM. M., BIBBINS, ARTHUR,
AND WIELAND, G. R. (U. S. Geological Survey. Mono-
graph 48.)

Status of the Mesozoic floras of the United States. Second
paper. 2 Vols. Sq. Q. Washington, 1905.

WARING, GEORGE E., JR.

Modern methods of sewage disposal for towns, public institu-
tions, and isolated houses. D. 2nd Ed. New York and London,
1896.

WARREN, F. D.

A hand-book on reinforced concrete, for architects, engineers,
and contractors. D. New York, 1906.

WARREN, G. K.

Report on bridging the Mississippi river, between Saint Paul, Minn., and Saint Louis, Mo. O. 1st Ed. Washington, 1878.

Report on bridging the Mississippi river, between Saint Paul, Minn., and Saint Louis, Mo. O. 2nd Ed. Washington, 1878.

WARTMANN, DR. H.

Atlas über die Entwicklung von Industrie und Handel der Schweiz, etc. 63 x 43 cm. Winterthur, 1873.

WEALE, JOHN

Rudimentary dictionary of terms used in civil and naval architecture, building, ecclesiastical and early art, civil and mechanical engineering, fine art, mining, and surveying. D. 1st Ed. London, 1849-50.

Ensamples of railway making. Q. London, 1843.

The theory, practice, and architecture of bridges of stone, iron, timber, and wire, with examples on the principle of suspension. Vols. 1 and 2—Text. Vols. 3 and 4—Plates. 4 Vols in 3. Q. London, 1843.

WEATHERBE, KARL

Tables for spiral curves, with instruction in their use. Sq. T. Blue prints. 1905.

WEED, W. H., et al. (U. S. Geological Survey. Monograph 32.)

Geology of the Yellowstone National Park. Part 2. Sq. Q. Washington, 1889.

WEGMANN, EDWARD

The design and construction of masonry dams. Sq. F. 2nd Ed. New York, 1889.

WEISBACH, DR. PHIL. JULIUS

Principles of the mechanics of machinery and engineering. 2 Vols. O. 1st Am. Ed. Philadelphia, 1848.

A manual of the mechanics of engineering and of the construction of machines. Vol. 2. Hydraulics and hydraulic motors. Tr. by Du Bois, A. Jay. O. Translation from 4th Ed. New York, 1894.

WELLINGTON, A. M.

The economic theory of the location of railways. O. Revised Ed. New York and London, 1887.

WERSHOVEN, F. J.

Technical vocabulary, English-French. For scientific, technical, and industrial students. S. London, Paris, and Boston, 1881.

WEST, THOMAS D.

American foundry practice. A treatise of loam, dry sand, and green sand moulding. D. 10th Ed. New York and London, 1901.

WHEELER, CAPT. GEORGE M.

Report of the third International Geographical Congress and Exhibition at Venice, Italy, 1881. Sq. Q. Washington, 1885.

WHEWELL, W.

An elementary treatise on mechanics. O. 7th Ed. Cambridge and London, 1847.

WHITE, DAVID. (U. S. Geological Survey. Monograph 37.)

Fossil flora of the lower coal measures of Missouri. Sq. Q. Washington, 1899.

WHITE, JAMES. (Geological Survey of Canada.)

Altitudes in the Dominion of Canada, with a relief map of North America. 1 Vol and 4 sheets. O. Ottawa, 1901.

WHITFIELD, ROBERT PARR. (U. S. Geological Survey. Monographs 18 and 24.)

Gasteropoda and cephalopoda of the Raritan clays and green-sand marls of New Jersey. Sq. Q. Washington, 1891.

Mollusca and crustacea of the Miocene formations of New Jersey. Sq. Q. Washington, 1894.

WHITNEY, J. D.

The metallic wealth of the United States, described and compared with that of other countries. O. Philadelphia and London, 1854.

WIELAND, G. R., et al. (U. S. Geological Survey. Monograph 48.)

Status of the Mesozoic floras of the U.S. Second paper. 2 Vols. Sq. Q. Washington, 1905.

WIGHTMAN, GEORGE

A treatise on roads. Part 1. On surveying and engineering. O. Halifax, 1845.

WILLIAMS, FREDERICK S.

Our iron roads, their history, construction, and social influences. O. London, 1852.

WILSON, EUGENE B., AND IHLSENG, M. C.

A manual of mining. O. 4th Ed. New York and London, 1905.

WILSON, HERBERT M.

Irrigation engineering. O. New York and London, 1904.

A manual of irrigation engineering. O. New York, 1893.

WILSON, J. M.

Elementary geometry. Part 1. D. London, 1868.

WILSON, J.

The mechanics' and builders' own price book, also a treatise on architecture. D. Buffalo, 1856.

WILSON, RICHARD

A system of plane and spherical trigonometry, to which is added a treatise on logarithms. O. Cambridge, 1831.

WINSLOW, BENJAMIN E.

The Winslow tables. Diagrams for calculating the strength of wood, steel, and cast iron beams and columns. O. New York, 1900.

WINTON, JOHN G., AND MILLAR, W. J.

Modern steam practice and engineering. 4 Vols. O. Philadelphia, 1883.

WISCONSIN CENTRAL RAILROAD

Exhibit of the Wisconsin Central Railroad Company. February, 1857. O. New York, 1857.

WOLFF, J. E., RUMPELLY, R., AND DALE, T. N. (U. S. Geological Survey. Monograph 23.)

Geology of the Green Mountains in Massachusetts. Sq. Q. Washington, 1894.

WOOD, DE VOLSON

A treatise on the resistance of materials, and an appendix on the preservation of timber. O. 3rd Ed. New York, 1877.

Treatise on the theory of the construction of bridges and roofs. O. 6th Ed. New York, 1600.

Turbines, theoretical and practical. O. 2nd Ed. New York and London, 1901.

WOOD, M. P.

Rustless coatings. Corrosion and electrolysis of iron and steel. O. 1st Ed. New York and London, 1904.

WOOD, NICHOLAS

Practical treatise on railroads and interior communication in general. O. London, 1825.

WOODWARD, C. M.

A history of the Saint Louis bridge. Sq. F. St. Louis, 1831.

WOODWORTH, J. B., SHALER, N. S., AND FOERSTE, A. F. (U. S. Geological Survey. Monograph 33.)

Geology of the Narragansett basin. Sq. Q. Washington, 1899.

ZIWET, ALEXANDER

An elementary treatise on theoretical mechanics. O. New York and London, 1900.

Addenda

FOR

Authors' Catalogue of Bound Books

BAXTER, WM., JR.

Switchboards. For power, light and railway service — direct and alternating current — high and low tension. O. New York, 1906.

BLOXAM, CH. LOUDON.

Chemistry, inorganic and organic. London, 1903. 9th Ed. Rewritten and revised by Thomson, J. Millar, LL.D., F.R.S. 872 p. ill. O.

BURR, WM. H., AND FALK, MYRON S.

The graphic method by influence lines for bridge and roof computations. O. New York and London, 1905.

BYRNE, AUSTIN T.

Inspection of the materials and workmanship employed in construction. Inspector's Pocket Book. D. 2nd rev. ed. New York, 1906.

FALK, MYRON S. See Burr, Wm. H.

INGALLS, W. R. (Ed.)

Mineral industry, its statistics, technology and trade during 1905. Founded by Richard P. Rothwell. Vol. 14, supplemental to Vols. 1-13. O. New York and London, 1906.

THOMAS, B. F., AND WATT, D. A.

The Improvement of Rivers. A treatise on the methods employed for improving streams for open navigation, and for navigation by means of locks and dams. 1st Ed. 1st thousand Pl. Diag. Sq. F. New York and London, 1905.

WATT, D. A. See Thomas, B. F. Improvement of Rivers.

Part II.

Subject Catalogue of Bound Books



AGRICULTURE

Year book of the United States department of agriculture.
1895. UNITED STATES DEPARTMENT OF AGRICULTURE.
La chimie de la ferme. MANUAL DU FERMIER.

AIR ENGINES

Examples of steam, air, and gas engines. 1878. BOURNE, J.

ALGEBRA

See Mathematics.

ALLOYS

The metallic alloys. 1896. BRANNT, WILLIAM T.
See also Metals and Metallurgy.

ALTITUDES

Altitudes in the Dominion of Canada. 1901. WHITE, JAMES.

AQUEDUCTS

Report of the aqueduct commissioners. 1887-1897. NEW CROTON AQUEDUCT.

Report of Chevalier C. Baillairge, engineer of the city of
Quebec, on the amelioration of its aqueduct. 1881.

Illustrations of the Croton aqueduct. 1843. BAILLAIRGE, C.
See also Public Works, Reservoirs, Water Supply and Canals. TOWER, F. B.

ARBITRATION

The engineer or architect as the arbitrator between the employer and the contractor. 1901. GREGORY, CHARLES CURRIE.

ARCHES

A practical treatise on segmental and elliptical oblique or skew arches. 1906. BELL, G. J.
Types and details of bridge construction. Part 1. Arch spans. 1904. SKINNER, F. W.
Treatise on arches. Designed for the use of engineers and students in technical schools. 1897. HOWE, MALVERD, A.
See also Beams and Columns, Bridges, Materials Applied, Roofs, Statics, Strength of Materials and Structures.

ARCHITECTURE

The planning and construction of high office buildings. 1905. BIRKMIRE, WILLIAM H.
Architectural iron and steel. 1903. BIRKMIRE, WILLIAM H.
Architect and Builder's Pocket book. 1900. KIDDER, FRANK E.
Architectural engineering, with special reference to high building construction. 1895. FREIDAG, J. K.
Towers and steeples designed by Sir Christopher Wren. 1881. TAYLOR, A. T.
Mechanics' and builders' own price book, also a treatise on architecture. 1856. WILSON, J.
Illustrated glossary of practical architecture and civil engineering. 1853. BREESE, S. C.
Encyclopædia of architecture and furniture. 1835 and 1853. LOUDEN, J. C.
See also Buildings.

ASSAYING

A manual of practical assaying. 1905. FURMAN, H. VAN F.
Manual of assaying. 1897. BROWN, WAITER LEE.
Practical mineralogy, assaying, and mining. 1863. OVERMAN, F.
See also Chemistry.

ASTRONOMY

A text-book on geodetic astronomy. 1904. HAYFORD, JOHN F.
Treatise on practical astronomy. 1903. DOOLITTLE, C. L.

Le sol. Traduit de la 4ieme Ed. Anglaise par Henry, Gabriel. 1897. MORTON, J. C., and SCOTT, JOHN.

An introduction to spherical and practical astronomy. 1892. GREENE, DASCOM.

Catalogue of the mean declinations of 981 stars between 12 hours and 26 hours of right ascension and 30 degrees and 33 degrees of north declination for January 1, 1875. 1873.

Physical and celestial mechanics. 1855. SAFFORD, T. H.

The planetary system. 1850. PIERCE, B.

Elements of the theory of astronomy. 1840. NICHOL, J. P.

Astronomical tables and formulæ. 1827. HYNERS, J.

Elements of astronomy. 1816. BAILY, FRANCIS.

An introduction to astronomy. 1811. VINCE, S.

BONNYCASTLE, JOHN.

ATLASES

See Maps.

BEAMS AND COLUMNS

Winslow tables. Diagrams for calculating the strength of wood, steel, and cast iron beams and columns. 1900.

Text-book on the mechanics of materials, and of beams, columns, and shafts. 1892. WINSLOW, B. E.

See also Statics, Mechanics Applied, and Strength of Materials and Structures. MERRIMAN, M.

BIBLIOGRAPHIES

See indexes.

BIOGRAPHIES

James Brindley and the early engineers. 1864. SMILES, SAMUEL.

Life of George Stephenson, railway engineer. 1857.

Telford, Thomas, C.E., atlas to the life of. 1838. SMILES, SAMUEL.

Life, times, and scientific labours of the second marquis of Worcester. 1865.

DIRCKS, HENRY.

BLAST FURNACES

Researches on the action of the blast furnace. 1870.

See also Iron and Steel and Metallurgy. SCHINZ, CHARLES.

BLASTING

Rudimentary treatise on the blasting and quarrying of stone.
1849.

BURGOYNE, J.

See also Explosives.

BOER WAR

Photographs of South African bridges destroyed in the Boer war. 1902.

Detailed history of the railways in the South African war.
1899-1902.

R. E. INSTITUTE.

BOILERS

See Steam Boilers.

BORING

See Wells.

BRICKLAYING

New guide to masonry, bricklaying, and plastering. BURN, R. S.
See also Building and Masonry.

BRIDGES

Bridge and structural design. 1906.

THOMSON, W. CHASE.

A treatise on wooden trestle bridges. 1904.

FOSTER, WOLCOTT, C.

Types and details of bridge construction. Part 1. Arch spans. 1904.

SPINNER, FRANK W.

Photographs of South African bridges destroyed in the Boer war. Ob. Q. War, 1902.

Bridge design. 1900.

MERRIMAN, MANSFIELD, and JACOBY, HENRY S.

Text-book on roofs and bridges. 1891-1900.

MERRIMAN, MANSFIELD, and JACOBY, HENRY S.

Treatise on the theory of the construction of bridges and roofs.
1900.

WOOD, DE VOLSON.

De Pontibus. 1898.

WADDELL, J. A. L.

The Cairo bridge. 1892.

The new Tay bridge. 1889.

BARLOW, CRAWFORD.

Memoirs of the Tōkiō Daigaku. 1885.

WADDELL, J. A. L.

Designing of ordinary iron highway bridges. 1884.

WADDELL, J. A. L.

- History of the St. Louis bridge. 1881. WOODWARD, C. M.
 Report on bridging the Mississippi river between Saint Paul,
 Minn., and Saint Louis, Mo. 1878. WARREN, G. K.
 Continuous revolving drawbridges. 1875. HERSCHEL, C.
 Description of the International bridge constructed over the
 Niagara river near Fort Erie and Buffalo. 1873. GZOWSKI, C. S.
 Iron truss bridges for railroads. 1870. MERRILL, COL. WILLIAM E.
 The Kansas City bridge. 1870. CHANUTE, O., and MORISON, GEORGE.
 Account of the iron railway bridge across the Mississippi
 river at Quincy, Ill. 1869. CLARKE, THOMAS CURTIS.
 Construction of the great Victoria bridge in Canada. 1860. HODGES, JAMES.
 General theory of bridge construction. 1851. HAUPT, HERMAN.
 Britannia and Conway tubular bridge, with plates. 2 Vols.
 1850. CLARK, EDWIN.
 Theory, practice, and architecture of bridges of stone, iron,
 timber, and wire. 1843. WEALE, JOHN.
 A trip to the suspension bridge over the Menai straits to
 Carnarvon, the lakes of Llanberis, Snowdon, Beddgelert,
 Capel Cerig, etc. 1827.
 See also Arches, Beams and Columns, Mechanics Applied,
 Statics, and Strength of Materials and Structures.

BRINE

- Well-boring for water, brine, and oil. 1902. ISLER, C.

BUILDING LAWS

- Code of building laws and regulations of the city of Montreal.
 1906. CHAUSSE, ALCIDE.
 Building inspectors' hand-book of the city of Montreal. 1901.
CHAUSSE, ALCIDE, and RITCHIE, J. W.
 Communication from the superintendent of buildings, trans-
 mitting his semi-annual report, etc. 1863.
NEW YORK CITY BOARD OF ALDERMEN.

BUILDING MATERIALS

- See Materials of Construction.

BUILDINGS

- Bridge and structural design. 1906. THOMSON, W. C.
 The planning and construction of high office buildings. 1903. BIRKMIRE, W. H.
 Structural engineering tables. 1903. GODFREY, E.
 Mill building construction. 1901. TYRREL, H. G.
 Architect and builder's pocket book. 1900. KIDDER, F. E.
 Buildings and structures of American railroads. 1900. BERG, WALTER G.
 Higher structures. 1899. MERRIMAN, MANSFIELD, and JACOBY, HENRY S.
 Architectural engineering. 1895. FREITAG, JOSEPH KENDALL.
 Theory and practice of modern framed structures. 1894. JOHNSON, J. B., BRYAN, C. W., and TURNEAURE, F. E.
 An index to public buildings in Canada. 1886. BAILLAIRGE, G. F.
 Solomon's temple. 1886. PAINE, TIMOTHY OTIS.
 Useful rules and tables relating to mensuration, engineering, structures, and machines. 1883. RANKINE, W. J. M.
 Mechanics' and builders' own price book, also a treatise on architecture. 1856. WILSON, J.
 Architect, engineer, and operative builder's constructive manual 1839. DAVY, CHRISTOPHER.
 See also Bricklaying, Carpentry and Masonry, Materials of Construction.

CALORIMETRY

See Fuels.

CANADA

See Author's List.

CANADIAN PACIFIC RAILWAY

See Railways.

CANALS

- Report on the barge canal from the Hudson river to the great lakes. 1901. NEW YORK STATE LEGISLATIVE ASSEMBLY.
 From the West and North-West to the sea, by way of the Niagara Ship Canal. 1890. JUDSON, WILLIAM PIERSON.
 Plans connecting Lake St. Louis and the harbor of Montreal. 1878. LACHINE CANAL.

Report on the North Sea canal of Holland, and on the improvement of navigation from Rotterdam to the sea. 1872.

BARNARD, J. G., Corps of engineers, U.S. army. Reports on explorations and surveys to ascertain the practicability of a ship canal between the Atlantic and Pacific oceans by way of the Isthmus of Tehuantepec. 1872.

SHUFFELT, CAPT. ROBERT W.

Canadian canals. 1865.

KINGSFORD, WILLIAM.

Maps, reports, estimates, etc., relative to improvements of the river St. Lawrence and a proposed canal from river St. Lawrence to Lake Champlain. 1856.

CANADA LEGISLATIVE ASSEMBLY.

Railway and canal reports. 1850-1855.

Annual report of the board of canal commissioners with accompanying documents for the fiscal year ending November 30, 1852.

PENNSYLVANIA, COMMONWEALTH OF

Rules and data for the steam engine and for railways, canals, and turnpike roads. 1839.

ADCOCK, HENRY.

Eleventh report of the commissioners for making and maintaining the Caledonia canal. 1814.

CALEDONIA CANAL.

See also Locks, Aqueducts, Public Works, Waterways, etc.

CARPENTRY

New guide to carpentry, general framing, and joinery.

BURN, R. SCOTT.

Elementary principles of carpentry. 1898. TREDGOLD, THOMAS.

See also Building.

CEMENTS

Calcareous cements. Their nature, manufacture, and uses, with some observations on cement testing. 1905.

REDGRAVE, GILBERT R., and SPACKMAN, CHARLES.

Cement and concrete. 1905.

SABIN, LOUIS CARLTON.

Hydraulic cement, its properties, testing, and use. 1904.

SPALDING, FRED. P.

Report of the Board of Engineer Officers on testing hydraulic cements, with specifications for the several classes used by the Engineer Department. 1901. U. S. ARMY CORPS OF ENGINEERS.

Cement industry, descriptions of Portland and natural cement plants in the United States and Europe. O. New York. 1900.

ENGINEERING RECORD.

American cements, 1898.

CUMMINGS, URIAH.

Practical treatise on limes, hydraulic cements, and mortars.
1864.

GILLMORE, A. A.

See also Concrete, Masonry.

CENSUS

Census of Canada, 1873-1885.

CANADA CENSUS.

Census of Manitoba, 1885-6.

CANADA CENSUS.

Census of the three provisional districts of the Northwest
Territory, 1884-5.

CANADA CENSUS.

Tenth census of the United States, 1880.

U.S. CENSUS.

Compendium of the tenth census of the United States, 1890.

U.S. CENSUS.

CHEMISTRY

Rustless coatings, 1904.

WOOD, M. P.

Practical electro-chemistry, 1903.

BLOUNT, B.

The chemical analysis of iron, 1902.

BLAIR, ANDREW ALEXANDER.

Nitro-explosives, 1896.

SANFORD, P. G.

La chimie de la ferme.

MANUAL DU FERMIER.

CHIMNEYS

Chimney design and theory, 1902.

CHRISTIE, W. W.

See also Draught and Steam Boilers.

CHLORINATION

See Gold and Metallurgy.

COAL

Text-book of coal mining for use of colliery managers and
others, 1901.

HUGHES, HERBERT W.

Coal fields and the coal trade of the island of Cape Breton.
1871

BROWN, RICHARD.

Report of experiments on the evaporative power and other
properties of coals.

JOHNSON, WALTER R.

See also Fuel and Mining.

COLD AND REFRIGERATION

Refrigeration, cold storage, and ice-making, 1902.

WALLACE-TAYLOR, A. J.

COLUMNS

See Beams and Columns.

COMPRESSED AIR

Compressed air information. 1903.

SAUNDERS, W. L.

Compressed air. 1902.

RICHARDS, FRANK.

Compressed air, its production, uses, and applications. 1902.

ISCOX, GARDNER, D.

CONCRETE

Reinforced concrete. 1906.

BUEL, A. W., and HILL, C. S.

A hand-book on reinforced concrete for architects, engineers, and contractors. 1906.

WARREN, F. D.

Cement and concrete. 1905.

SABIN, L. C.

Reinforced concrete. 1904.

BUEL, A. W., and HILL, C. S.

Architects' and engineers' hand-book of reinforced concrete construction (1904?)

MENSCH, L. J.

A treatise on concrete, plain and reinforced. 1904.

TAYLOR, F. W., and THOMPSON, S. E.

Experimental researches on reinforced concrete. 1903.

CONSIDERE, ARMAND, and MOISSEIFF, LEON S.

A rudimentary treatise on foundations and concrete works. 1850.

DOBSON, E.

See also Cement and Masonry.

CONGRESSES

Report of Elmer L. Corthell, delegate of the United States to the seventh International Congress of Navigation. 1898.

INTERNATIONAL CONGRESS OF NAVIGATION.

Proceedings of the International Electrical Congress, held in the city of Chicago. August 21st to 25th, 1893.

INTERNATIONAL ELECTRICAL CONGRESS.

Proceedings. 1902.

Report of the proceedings. 1902.

INTERNATIONAL ENGINEERING CONGRESS, GLASGOW, 1901.

the third International Geographical Congress and exhibition at Venice, Italy, 1881. 1885. WHEELER, GEORGE M.

CONTRACTS AND SPECIFICATIONS

Engineering contracts and specifications. 1895. JOHNSON, J. B.

COPPER

Rudimentary treatise on the metallurgy of copper. 1860.

LAMBORN, R. H.

See also Metallurgy.

CORROSION

Rustless coatings. 1904.

WOOD, M. P.

COSTS

Hand-book of cost data. 1906.

GILLETTE, H. P.

Earthwork and its cost. 1904.

GILLETTE, H. P.

See also Contracts and Specifications.

CRANES

Rudimentary treatise on the construction of cranes and machinery. 1849.

GLYNN, JOSEPH.

CROWN LANDS

See Public Lands.

CURVES

The transition curve. 1903.

CRANDALL, C. L.

See also Surveying and Levelling.

CYANIDING

See Gold and Metallurgy.

DAMS

Design and construction of masonry dams. 1899.

WEGMANN, EDWARD.

Text-book on retaining walls and masonry dams. 1892.

MERRIMAN, M.

See also Water Supply and Water Works.

DELTA

Cartes du Delta du Danube. 1887.

See also Jetties, Rivers and River Improvement

DESCRIPTIVE GEOMETRY

Elements of descriptive geometry. 1899.

MILLAR, J. B.

See also Stereometry

DESIGN

- Bridge and structural design. 1906. THOMSON, W. C.
 Practical draughtsman's book of industrial design. 1860.
 JOHNSON, WILLIAM.
 See also Machine Design, Mechanics Applied, Stresses and
 Strains, etc., Strength of Materials and Structures, and Statics

DICTIONARIES

- Technical vocabulary, English, French. 1881. WERSHOVEN, F. J.
 Illustrated glossary of practical architecture and civil
 engineering. 1853. BRES, S. C.
 Rudimentary dictionary of terms used in civil and naval
 architecture. Engineering. 1840-50. WEALE, J.
 Glossary of civil engineering. 1841. BRES, S. C.

DOCKS

- Sunderland harbour and docks (1881?) WAKE, H. H.
 See also Harbours, etc.

DRAFT

- Mechanical draft. 1889. STURTEVANT, B. F. Co.
 See also Chimneys and Steam Boilers.

DRAWING

- Technic of mechanical draughting. 1900. REINHARDT, CHARLES W.
 Geometrical drawing. 1896. MCLEOD, CLEMENT HENRY.
 Mathematical drawing instruments. 1888.
 STANLEY, WILLIAM FORD.
 Rudimentary perspective for the use of beginners. 1848.
 PYNE, GEORGE.
 See Descriptive Geometry and Stereotomy.

DRILLS

- See Rock Drills.

DYNAMOS

- See Electric Machinery.

EARTHWORK

- Earthwork and its cost. 1904. GILLETTE, HALBERT P.

Tables for the computation of railway and other earthwork
1886. CRANDALL, C. L.

See also Excavation.

EDUCATION

Engineering education in the British dominions. 1891.

INSTITUTION OF CIVIL ENGINEERS.

See also in Author's List under Names of Universities.

ELECTRICITY

Standard polyphase apparatus and systems. 1904.

ODIN, MAURICE A.

Electricity and matter. 1904.

THOMPSON, J. J.

Alternating currents and alternating current machinery.

(Vol. 2 of the text-book of electro-magnetism.) 1902.

JACKSON, DUGALD C., and JACKSON, JOHN PRICE.

Elements of electrical engineering. 1902.

STEINMETZ, CHARLES PROTEUS.

Elementary lessons in electricity and magnetism. 1902.

THOMPSON, SYLVANUS P.

Alternating currents. 1901.

BEDELL, FREDERICK, and CREHORE, ALBERT C.

Text-book on electro-magnetism and construction of dynamos.

1901.

JACKSON, DUGALD C.

Notes et formules de l'ingenieur, du mecanicien, metallurgiste

et electricien. 1900.

BARRE, L. A., and VIGREUX, CHAS.

Theory and calculation of alternating current phenomena.

1900.

STEINMETZ, CHARLES PROTEUS, and BERG, ERNST J.

Polyphase electrical currents and alternate current motors

1900.

THOMPSON, SYLVANUS P.

Electro dynamics. 1898.

CARUS-WILSON, CHARLES ASHLEY.

Induction coils and coil-making. 1896.

ALLSOP, S. P.

Electric transmission of intelligence and other advanced primers

of electricity. 1893.

HOUSTON, EDWIN J.

Proceedings of the International Electrical Congress, held in
the city of Chicago, August 21st to 25th, 1893.

INTERNATIONAL ELECTRICAL CONGRESS.

Short lectures to electrical artisans. 1888.

FLEMING, J. A.

Electricity and its uses (1883)

MUNRO, J.

Notes of a course of seven lectures on electrical phenomena

and theories, delivered at the Royal Institution of Great
Britain, 1876.

LYNDAL, JOHN

Domestic electricity for amateurs. 1855.

HOSPITALIER, E.

See also Special Readings below.

ELECTRICITY—LIGHTING

Electric lighting. 1904.

CROCKER, FRANCIS B.

The art of illumination. 1902.

BELL, LOUIS

Electric lighting specifications for use of engineers and architects. 1896.

MERRILL, E. A.

Electric illumination. 1895.

DREDGE, JAMES, REILLY, M. F., and VIVARIZ, H.

ELECTRICITY—MACHINERY

Storage battery engineering. 1903.

LYNDON, LAMAN.

Management of dynamos. 1903.

PATERSON, G. W. LUMMIS.

Design of dynamos. 1903.

THOMPSON, SYLVANUS P.

The induction motor. 1903.

DE LA TOUR, HENRI BOY.

Dynamo electric machinery, its construction, design, and operation. Direct current machines. 1902.

SHELDON, SAMUEL, and MANON, HOBART.

The induction motor. 1901.

BEHREND, B. A.

Electrodynamics. The direct current motor. 1894.

CARNE-WILSON, C. A.

Practical directions for winding magnets for dynamos. 1887.

HERING, CARL.

Dynamo-electrical machinery. 1884.

THOMPSON, SYLVANUS P.

ELECTRICITY—MEASUREMENTS AND TESTING

Testing of electro-magnetic machinery and other apparatus.

1904. SWENSON, BERNARD VICTOR, and FRANKENFIELD, BUDD.

Hand-book of electric testing. 1900.

KEMPE, H. R.

Practical electrical measurements. 1888.

SWINBURNE, JAMES.

ELECTRICITY—TELEGRAPHY AND TELEPHONY

Telephony. 1903.

ABBOTT, ARTHUR VAUGHAN.

The electric transmission of intelligence. 1893.

HOUSTON, E. J.

ELECTRICITY—TRACTION

Notes on electric railway economics and preliminary engineering. 1904.

GOTSHALL, W. C.

The "engineering" and electric traction pocket book. 1903.

DAWSON, P.

Locomotives, simple, compound, and electric, 1903.

REAGAN, H. C.

Power distribution for electric railroads, 1900. BELL, LOUIS.

Railway engineering, mechanical and electrical, 1879.

HALDANE, J. W. C.

See also Electric Machinery, Transmission and Distribution.

ELECTRICITY—TRANSMISSION AND DISTRIBUTION

The electrical transmission of energy, 1901.

ABBOTT, ARTHUR VAUGHAN.

Standard wiring for electric light and power, 1901.

CUSHING, H. C., JR.

The alternating current transformer, 1903.

BAUM, F. G.

Conductors for electric distribution, their materials and manufacture, 1903.

PERRINE, F. A. C.

Electric power transmission, 1901.

BELL, LOUIS.

Power distribution for electric railroads, 1900. BELL, LOUIS.

Alternating current wiring and distribution, 1898.

EMMET, WILLIAM LE ROY.

The principles of the transformer, 1896. BEDELL, FREDERICK.

Electric transmission of energy and its transformation, subdivision, and distribution, 1894.

KAP, GILBERT.

ELECTRO-CHEMISTRY

Les fours électriques et leurs applications industrielles, 1905.

ESCARD, J.

Electric smelting and refining, 1904.

BORCHERS, DR. W., and Mc MILLAN, W. G.

Practical electro-chemistry, 1903.

BLOUNT, BERTRAM.

Elements of electro-metallurgy, or the art of working metals by the galvanic fluid, 1841.

SMEE, ALFRED.

ELECTRO-METALLURGY

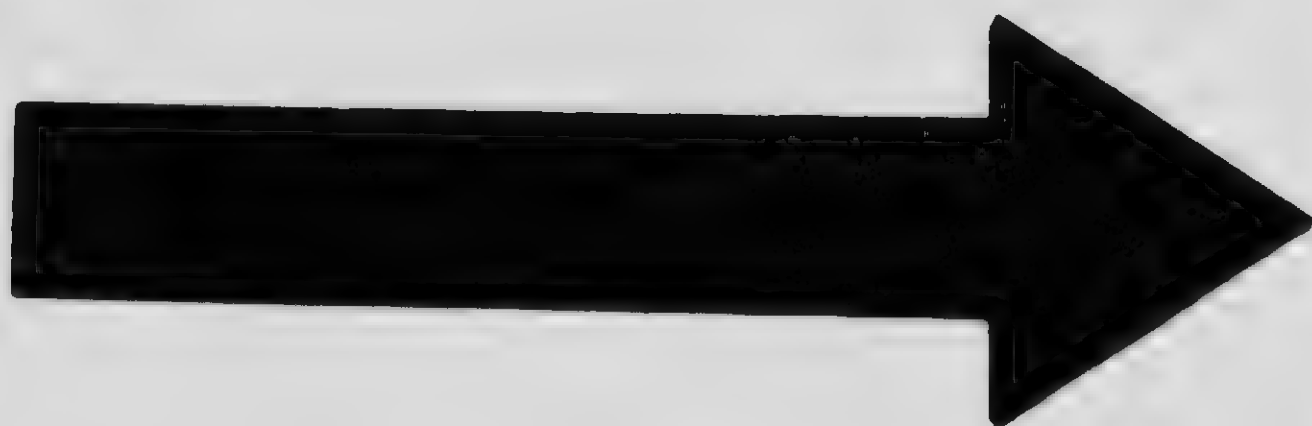
See Electro-chemistry.

ELEVATION

See Altitudes.

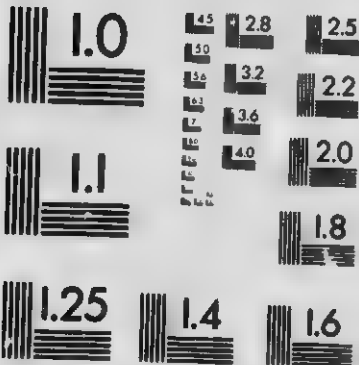
ELEVATORS

See Hoists and Lifts.



MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



APPLIED IMAGE Inc

1653 East Main Street
Rochester, New York 14609 USA
(716) 482 - 0300 - Phone
(716) 288 5989 - Fax

ENCYCLOPAEDIAS

Encyclopædia Americana. 1904.

Aide-memoire general et alphabetique des ingenieurs. Avec atlas. 1848. RICHARD, G. TOM.

Encyclopædia of architecture and furniture. 1835 and 1853.

LOUDEN, J. C.

An encyclopædia of civil engineering. 1847. CRESY, EDWARD.

See also Dictionaries.

ENERGY

Conservation of energy. 1875.

STEWART, BALFOUR.

ENGINEERING

The principal professional papers of Dr. J. A. L. Waddell. 1905.

HARRINGTON, JOHN LYLE.

"Engineering" and electric traction pocket book. 1903.

DAWSON, PHILIP.

Notes et formules de l'ingenieur du constructeur, du mecanicien, metallurgiste et electricien. 1900.

BARRE, L. A., and VIGREUX, CHARLES.

Treatise on civil engineering. 1899.

PATTON, W. M.

Oeuvres diverses. 1895.

BAILLAIRGE, C.

Civil engineers' pocket book. 1894.

TRAUTWINE, JOHN C.

Modern steam practice and engineering. 1883.

WINTON, J. G., and MILLAR, W. J.

Manual of civil engineering. 1871. BANKINE, WILLIAM JOHN M.

How to become a successful engineer. 1866. STUART, BERNARD.

The illustrated glossary of practical architecture and civil engineering. 1853.

BREES, S. C.

Rudiments of civil engineering for the use of beginners. 1848.

LAW, HENRY.

Aide-memoire, general et alphabetique des ingenieurs. Avec atlas. 1848.

RICHARD, G. T.

Engineers' and machinists' assistant. 1847.

An encyclopædia of civil engineering, historical, theoretical, and practical. 1847.

CRESY, E.

Mechanical principles of engineering and architecture. 1843.

MOSELEY, HENRY.

Elementary course of civil engineering for the use of the cadets of the United States military academy. 1838.

MAHAN, D. H.

Sketch of the civil engineering of North America. 1838.

STEVENSON, DAVID.

Reports of the late John Smeaton, made on various occasions in the course of his employment as a civil engineer. 1837.

SMEATON, JOHN.

See also Electricity, Mechanical Engineering, Mining, Railways, Sanitary Engineering, etc.

ENGINEERING CONGRESSES

Glasgow International Engineering Congress. 1901.

ENGINEERING INDEXES

Descriptive index of Current Engineering Literature. 1884-1905. 4 Vols.

ENGINES

See Steam Engines, Gas Engines, Air Engines, Oil Engines, Heat Engines.

ENGLAND

See Author's List under Great Britain.

EXCAVATION

Rock excavation, method and cost. 1904. GILLETTE, H. P.

New method of calculating the cubic contents of excavations and embankments by the aid of diagrams. 1887 (1851 and 1853).

TRAUTWINE, JOHN C.

See also Earthworks.

EXHIBITIONS

Report of the third International Geographical Congress and Exhibition at Venice, Italy, 1881. 1888.

Record of the Great Paris Exhibition, 1862. (1862).

PRACTICAL MECHANICS' JOURNAL.

EXPLORATION

Report of a reconnaissance of the Black Hills of Dakota made in the summer of 1874. 1875.

LUDLOW, WILLIAM, U.S. Army Engineer Department.

EXPLOSIVES

Nitro-explosives. 1896.

SANFORD, P. GERALD.

Tunnelling, explosive compounds, and rock drills. 1893.

DRINKER, H. S.

A dictionary of explosives. 1889.

CUNDILL, MAJOR J. P.

See also Blasting.

FILTRATION

See Water Supply.

FIRE BRICK

See Metallurgy and Refractory Materials.

FORTIFICATION

Permanent fortification. For British engineers. 1890. LEWIS, J. F.

FOUNDATIONS

Practical treatise on foundations, explaining fully the principles involved. 1898.

PATTON, W. M.

The Kansas City bridge, with an account of the regimen of the Missouri river and a description of methods used for sounding in that river. 1870. CHANUTE, O., and MORISON, G.

Rudimentary treatise on foundations and concrete works. 1850.

DOBSON, E.

See also Concrete, Masonry, etc.

FOUNDRIES

American foundry practice 1901.

WEST, THOMAS D.

See also Iron and Steel and Metallurgy.

FUELS

Fuel and refractory materials. 1897.

SEXTON, A. HUMBOLDT.

See also Coal, Gas, Wood, etc.

FURNITURE

Encyclopædia of architecture and furniture. 1835 and 1853.

LOUDEN, J. C.

GAS

Practical treatise on the manufacture and distribution of coal gas. 1877.

RICHARDS, WILLIAM.

GAS AND OIL ENGINES

The gas and oil engine. 1904.

CLERK, DUGALD.

The gas engine. A treatise on the internal combustion engine using gas, gasoline, kerosene, or other hydro-carbons as a source of energy. 1903. HUTTON, FREDERICK REMSEN.

A practical treatise on modern gas and oil engines. 1902.

GROVER, FREDERICK.

The gas engine. 1896.

CLERK, DUGALD.

Gas engines. 1885.

MACGREGOR, WILLIAM.

Examples of steam, air, and gas engines. 1878.

BOURNE, J.

GASOLINE ENGINES

See Gas Engines.

GEODESY

See Surveying and Astronomy.

GEOLOGY

Treatise on metamorphism. 1904. U.S. geological survey. Monograph 47.

VAN HISE, CHARLES RICHARD.

Manual of geology (1895?).

DANA, JAMES D.

Rudimentary treatise on geology for the use of beginners. 1848.

PORTLOCK, LT.-COL.

Geology of the Narragansett basin. 1899. U.S. geological survey. Monograph 33.

SHALER, N. S., WOODWORTH, J. B., and FOERSTE, A. F.

Geology of the Yellowstone National Park 1889. U.S. geological survey. Monograph 32.

HAGUE, ARNOLD, *et al.*

Geology of Old Hampshire county, Massachusetts. 1898. U.S. geological survey. Monograph 29.

EMERSON, BENJAMIN KENDALL.

Geology of the Green Mountains in Massachusetts. 1894. U.S. geological survey. Monograph 23.

PUMPELLE, RAPHAEL, WOLFF, J. E., and DALE, T. N.

Glacial formations and drainage features of the Erie and Ohio basins. 1902. U.S. geological survey. Monograph 41.

LEVERETT, FRANK.

Glacial gravels of Maine and their associated deposits. 1899. U.S. geological survey. Monograph 34.

STONE, GEORGE H.

Glacial Lake Agassiz. 1895. U.S. geological survey. Monograph 25.

UPHAM, WARREN.

GEOLOGY—ECONOMIC

- Genesis of ore deposits. 1902. POSEPNY, FRANZ.
 Menominee iron-bearing district of Michigan. 1904. U.S.
 geological survey. Monograph 46. BAYLEY, WILLIAM SHIRLEY.
 Mesabi iron-bearing district of Minnesota. 1903. U.S.
 geological survey. Monograph 43. LEITH, CHARLES KENNETH.
 Clays of New York, their properties and uses. 1900. (New
 York state museum, bulletin 35.) REIS, HEINRICH.
 Geology of the Aspen mining district, Colorado, with atlas.
 1898. U.S. geological survey. Monograph 31. SPURR, JOSIAH EDWARD.
 Geology of the Denver basin in Colorado. 1896. U.S. geological
 survey. Monograph 27. EMMONS, CROSS, and ELDRIDGE.
 Geology of the Eureka district, Nevada. 1892. U.S. geological
 survey. Monograph 20. HAGUE, ARNOLD.
 Penoque iron-bearing district of Michigan and Wisconsin.
 1892. U.S. geological survey. Monograph 19. IRVING, ROLAND DUEB, and VAN HISE, CHARLES RICHARD.
 See also Mining and Ores and Minerals.

GEOLOGY—PALEONTOLOGY

- Paleozoic fossils. 1865. GEOL. SURVEY OF CANADA.
 Status of the mesozoic floras of the U.S. 1905. WARD, L. F. C., *et al.*
 Pseudoceratites of the cretaceous. 1903. U.S. geological survey.
 Monograph 44. HYATT, ALPHENS.
 Carboniferous ammonoids of America. 1903. U.S. geological
 survey. Monograph 42. SMITH, JAMES PERRIN.
 Adephagous and clavicorn coleoptera from the tertiary deposits
 at Florissant, Colorado. 1900. U.S. geological survey.
 Monograph 40. SCUDDER, SAMUEL HUBBARD.
 Eocene and lower oligocene coral faunas of the United States.
 1900. U.S. geological survey. Monograph 39. VAUGHN, T. WAYLAND.
 Fossil flora of the lower coal measures of Missouri. 1899.
 U.S. geological survey. Monograph 37. WHITE, DAVID.
 Memoir on the paleozoic reticulate sponges of dictyospongidæ.
 1898. HALL, J., and CLARKE, J. M.
 Fossil medusæ. 1898. U.S. geological survey. Monograph 30. WALCOTT, CHARLES DOOLITTLE.

Later extinct floras of North America. 1898. U.S. geological survey. Monograph 35. NEWBERRY, JOHN STRONG.

Mollusca and crustacea of the miocene formations of New Jersey. 1891. U.S. geological survey. Monograph 24.

WHITFIELD, ROBERT PARR.

Tertiary rhynchiphorous coleoptera of the United States. 1893.

U.S. geological survey. Monograph 21.

SCUDDER, SAMUEL HUBBARD.

Flora of the Dakota group. 1891. U.S. geological survey. Monograph 17.

LESQUEREUX, LEO.

Gasteropoda and cephalopoda of the Raritan clays and green-sand marls of New Jersey. 1891. U.S. geological survey.

Monograph 18.

WHITFIELD, ROBERT PARR.

See also Geology.

GEOMETRY

See Mathematics.

GIRDERS

Theory of strains in girders and similar structures. 1869.

STONEY, B. B.

See also Strength of Materials and Structures. Mechanics Applied, Statics.

GLASGOW

Local industries of Glasgow and the west of Scotland. 1901.

MCLEAN, ANGUS.

GLOSSARIES

See Dictionaries.

GOLD

Cyanide practice (1903).

JAMES, A.

The gold mines of the world. 1902.

CURLS.

Stamp milling of gold ores. 1901.

RICKARD, T. A.

Practical treatise on hydraulic mining in California. 1893.

BOWIE, A. J.

The metallurgy of gold. 1892.

ROSE, T. KIRKE.

The metallurgy of silver, gold, and mercury in the United States. 1887.

EGLESTON, THOMAS.

Mining and metallurgy of gold and silver. 1867. PHILLIPS, A. J.

GREAT BRITAIN

Public works of Great Britain. 1838.
See also Authors' List.

SIMMS, F. W.

HARBOURS

International Engineering Congress. Glasgow, 1901. Proceedings.
Part II. Waterways and maritime works. 1902.

Appropriations and expenditures for rivers and harbours. 1884.

U. S. HOUSE OF REPRESENTATIVES.

Appropriations and expenditures for rivers and harbours.

U. S. HOUSE OF REPRESENTATIVES.

Sunderland harbour and docks (1881).

WAKE, H. H.

Report of the general scheme of improvements for the harbour
of Montreal, by the commission of engineers. 1877.

CANADA DEPARTMENT OF PUBLIC WORKS.

Design and construction of harbours 1874. STEVENSON, THOMAS.

Topographical engineers' report on river and harbour improve-
ments on the Great Lakes. 1858.

U. S. SENATE.

Theory, formation, and construction of British and foreign
harbours. 1854.

RENNIE, JOHN (Sir).

Memorandum with accompanying plans and documents relative
to the past and present state of the harbour of Toronto. 1881.

ONTARIO DEPARTMENT OF PUBLIC WORKS.

See also Public Works.

HEAT

A practical treatise on heat. 1868.

FOX, T.

Heat, a mode of motion. 1868.

TYNDALL, JOHN.

Caloric, its agencies in the phenomena of nature. 1843.

METCALFE, S. I.

HEAT ENGINES

The steam turbine, with an appendix on the gas turbine and
the future of heat engines. 1905.

STODOLA, A.

The steam engine and other heat engines. 1902.

EWING, J. A.

See also Steam Engines.

HEATING AND VENTILATION

Heating and ventilating buildings. 1905.

CARPENTER, ROLLA C.

Baldwin on heating, or steam heating for buildings revised.
1900.

BALDWIN, WILLIAM J.

HEIGHT

See Altitudes.

HIGH BUILDINGS

See Buildings.

HIGHWAYS

See Roads.

HOISTS AND LIFTS

Hydraulic, steam and hand power lifting and pressing machinery. 1881. COLVER, F.

HOUSING OF THE WORKING CLASSES

Le abitazioni popolari. 1905.

MAGRINI, EFFREN.

HYDRAULICS

The graphical solution of hydraulic problems. 1904.

COFFIN, FREEMAN C.

Hydraulique. 1900.

FLAMANT, A.

115 experiments on the carrying power of large rivetted metallic conduits up to 5 feet per second of velocity of flow. 1897.

HERSCHEL, C.

A manual of engineering and of the construction of machines.

Vol. II. Hydraulics and hydraulic motors. 1894.

WEISBACH, P. J.

Treatise on hydraulics. 1893.

MERRIMAN, MANSFIELD.

A general formula for the uniform flow of water in rivers and other channels. 1889.

GANGUILLET, E., and KUTTER, W. R.

Flow of water through orifices, over weirs and through open conduits and pipes. 1886.

SMITH, HAMILTON, JR.

Hydraulique fluviale. 1884.

LECHALAS, M. C.

Essay on the contracted liquid vein, affecting the present theory of hydraulics. 1884.

STECKEL, R.

Etude sur la veine liquide contractee, tendant a modifier la theorie actuelle de l'hydraulique. 1884.

STECKEL, R.

Lowell hydraulic experiments. 1883.

FRANCIS, JAMES B.

Hydraulic tables. 1812.

BEARDMORE, NATHANIEL.

Lectures in select subjects in mechanics, hydrostatics, hydraulics, pneumatics, and optics. 1799.

FERGUSON, J.

See also Hydraulic Machinery.

HYDRAULIC MACHINERY AND POWER

Modern turbine practice and water power plants. 1905.

THURSO, J. W.

Pumps and hydraulics. 1905.

ROGERS, W.

Hydraulic power and hydraulic machinery. 1904.

ROBINSON, HENRY.

Water power. 1901.

FRIZELL, JOSEPH P.

Hydraulic power engineering. 1900.

MARKS, A. CROYDEN.

Hydraulic motors, turbines, and pressure engines. 1895.

BODMER, G. R.

A manual of engineering and of the construction of machines. Vol. II. Hydraulics and hydraulic motors. 1894.

WEISSBACH, P. J.

The centrifugal pump, turbines, and water motors, including the theory and practice of hydraulics. 1893.

INNES, CHARLES H.

Hydraulic, steam, and hand-power lifting and pressing machinery. 1887.

COLYER, FREDERICK.

See also Hydraulics.

HYDRAULIC MINING

See Gold.

HYDROGRAPHY

Primary triangulations, U.S. lake survey. 1882.

U. S. ARMY CORPS OF ENGINEERS.

Hydraulics of great rivers. The Parana, Uruguay, and the

La Plata estuary. 1874.

REEVY, J. J.

HYDROSTATICS

Lectures on select subjects in mechanics, hydrostatics, pneumatics, and optics. 1799.

FERGUSON, J.

ICE

Ice formation, with special reference to anchor ice and frazil. 1906.

BARNES, HOWARD T.

ILLUMINATION

See Electric Lighting and Gas.

INDICATORS

Twenty years with the indicator. 1902.

PRAY, THOMAS, JR.

See also Steam Engines.

INSTITUTIONS

See Societies.

INTERCOLONIAL

See Railways.

IRON

- Metallurgy of iron. 1904. TURNER, THOMAS
- The chemical analysis of iron. 1902. BLAIR, A. A.
- Cast iron, a record of original research. 1902. KEEP, W. J.
- On the application of cast and wrought iron to building purposes. 1870. FAIRBAIRN, SIR WILLIAM
- A treatise on the metallurgy of iron. 1868. BAUERMAN, H.
- Iron, its history, properties, and processes of manufacture. 1865.
- Iron manufacture of Great Britain. 1862 and 1865. TRUBAN, W.
- Manufacture of iron in all its various branches. 1850. OVERMAN, FREDERICK.
- Report of the commission appointed to enquire into the application of iron to railway structures. 1849. GREAT BRITAIN.
- Traite de l'application du fer de la fonte et de la tôle. 1841. ECK, CHARLES LOUIS GUSTAVE.
- Traité de construction en poteries et fer. 1841. ECK, CHARLES LOUIS GUSTAVE.
- See also Metallurgy.

IRON AND STEEL

- The manufacture and preparation of iron and steel. 1904. CAMPBELL, HARRY HUSE.
- The metallurgy of steel. 1904. HARBORD, F. W., and HALL, J. W.
- Architectural iron and steel. 1903. BIRKMIRE, W. H.
- Metallurgy of iron and steel. 1869. OSBORN, H. S.
- Results of an experimental inquiry into tensile strength and other properties of various kinds of wrought iron and steel. 1866. KIRKALDY, DAVID.
- Metallurgy, iron and steel. 1864. PERCY, J.
- See also Metallurgy.

IRON ORE

- The Menominee iron-bearing district of Michigan. 1904.
 HAYLEY, WILLIAM SHIRLEY.
 Vermilion iron-bearing districts of Minnesota. 1903.
 CLEMENTS, J. MORGAN.
 Crystal Falls iron-bearing district of Michigan. 1899.
 CLEMENTS, J. MORGAN, and SMYTH, HENRY LLOYD.
 Penokee iron-bearing series of Michigan and Wisconsin. 1892.
 IRVING, R. D., and VAN HISE, C. R.
 Mesabi iron-bearing district of Minnesota. 1903. LEITH, C. K.
 See also Ores and Minerals.

IRRIGATION

- Irrigation engineering. 1904. WILSON, HERBERT M.
 Manual of irrigation engineering. 1893. WILSON, HERBERT M.
 General report on irrigation and Canadian irrigation surveys.
 1894-1898.
 Report of the state engineer of California on irrigation and
 the irrigation question. 1886. HALL, WILLIAM, HAM.
 See also Reservoirs and Water Supply.

JAMAICA

- An account descriptive of the colony of Jamaica with his-
 torical and other appendices. 1893.
 JAMAICA AT CHICAGO—WORLD'S FAIR.

JETTIES

- A history of the jetties at the mouth of the Mississippi river.
 1880. CORTHELL, E. L.
 See also Deltas and River Improvement.

KINEMATICS

- See Machine Design.

LAWS

- See under Building Laws, Mining Laws, etc.

LEAD

- Metallurgy of lead and the desilverization of base bullion.
 1904. HOFMAN, H. O.
 See also Metallurgy.

LEVELLING

See Surveying and Levelling.

LIBRARIES

Patent office library catalogue. 1894.

Billings library, The.

RICHARDSON, H. H.

LIGHTHOUSES

Report of the officers constituting the Lighthouse Board, to enquire into the condition of the lighthouse establishment of the United States. 1852. U. S. LIGHTHOUSE BOARD.

Elementary treatise on the history, construction, and illumination of lighthouses. 1850. STEVENSON, ALAN.

CEMENT AND MORTAR

Practical treatise on limes, hydraulic cements, and mortars. 1864.

GILLMORE, A. A.

See also Bricklaying, Building and Concrete.

LOCKS

Notes on making lock gates. 1892.

HODGES, HARRY F.

See also C.

LOCOMOTIVES

Locomotive operation. 1904.

HENDERSON, G. R.

Locomotive engine running and management. 1904.

SINCLAIR, ANGUS.

Locomotives, simple, compound, and electric, 1903. REAGAN, H. C.

History of the American locomotive. 1887. PEALE, LOUIS T.

Recent Locomotives: Reprinted from Railroad Gazette. 1883.

Catechism of the locomotive. 1875.

FORNEY, M. N.

Locomotive engineering and the mechanism of railways. 1871.

COLBURN, JERAH.

The student's guide to the locomotive engine. 1849.

Practical treatise on locomotive engines. 1840.

PAMBOUR, F. M. G.

See also Railways and Steam Engine and Electricity Traction.

MACHINE DESIGN

Machine design. 1905.

JONES, FORREST R.

- Machine design. 1903. CATHCART, WILLIAM LEDYARD.
 The constructor, a hand-book of machine design. 1902.
 REULEAUX, F., Tr. by SUPLEE, HENRY HARRISON.
 Mechanical movements, powers, devices, and appliances used
 in constructive and operative machinery and the mechanical
 arts. 1901. HISCOX, GARDNER D.
 Elements of machine design. 1900. UNWIN, W. CAWTHORNE.

MACHINES AND MACHINERY

- Modern machine shop practice. 1888. ROSE, JOSHUA.
 Manual of machinery and mill work. 1883. RANKIN, WILLIAM JOHN M.
 Useful rules and tables relating to mensuration, engineering
 structures, and machines. 1883. RANKINE, W. J. M.
 Rudimentary treatise on the construction of cranes and
 machinery. 1849. GLYNN, J.
 Engineers' and machinists' assistant. 1847.

MAPS

- Rand, McNally & Co's. indexed atlas of the world. 1905.
 The Times atlas. 1900.
 Atlas of the city of Montreal. 1881. GOAD, CHARLES E.
 See also in reports on Geology, Surveys, etc., Topography.

MARINE ENGINES AND BOILERS

- Manual of marine engineering. 1904. SEATON, A. E.
 Engine-room practice. 1899. LIVERSIDGE, JOHN G.
 Marine steam engine. 1898.
 SENNETT, RICHARD, and ORAM, HENRY J.
 Marine steam engine. 1852. MAIN, T. J., and BROWN, T.
 A treatise of the steam engine in its application to mines,
 mills, steam navigation, and railways. 1851.
 THE ARTIZAN CLUB (JOHN BOURNE, ED.).
 Marine engines and boilers. TREDGOLD, T.
 See also Steam Engines and Ships and Steam Vessels.

MASONRY

- A treatise on masonry construction. 1899. BAKER, IRA O.
 Rudimentary treatise on masonry and stonecutting for the use
 of beginners. 1849. DOBSON, EDWARD.

New guide to masonry, bricklaying, and plastering.

BURN, R. SCOTT.

See also Concrete, Foundations, etc.

MATERIALS OF CONSTRUCTION

Architectural iron and steel, and its application in the construction of buildings. 1903.

BIRKMIER, W. H.

On the application of cast and wrought iron to building purposes. 1870.

FAIRBAIRN, W.

Text-book of the materials of construction. 1886.

THURSTON, ROBERT H.

Report of the commission appointed to enquire into the application of iron to railway structures. 1849. GREAT BRITAIN.

See also under the Concrete, Masonry, Iron and Steel, Timber, etc.

MATHEMATICS

Elements of algebra with key. 1858.

HADDON, JAMES.

Elementary geometry. 1868.

WILSON, J. M.

Nouveau traite de geometrie et de trigonometrie, etc. 1866.

BAILLAIRGE, CHAS.

Chambers' mathematical tables. 1867.

Examples on the integral calculus. 1850.

HANN, JAMES.

Elements of spherical trigonometry. 1849.

HANN, JAMES.

The elements of algebra, etc. 1840.

HALL, F. G.

System of plane and spherical trigonometry. 1831.

WILSON, RICHARD.

Course of mathematics. 1831.

HUTTON, CHARLES.

Miscellanea curiosa mathematica, or the literary correspondence of some eminent mathematicians in Great Britain and Ireland. 1749.

MEASUREMENTS

See Mensuration.

MECHANICAL DRAWING

See Drawing.

MECHANICAL ENGINEERING

Mechanical engineering of power plants. 1905. HUTTON, F. B.

See also Kinematics, Machine Design, Mechanics, Steam Engines, etc.

MECHANICS

- Mechanics of engineering. 1904. CHURCH, IRVING P.
 Notes et formules de l'ingenieur, du constructeur du
 mecanicien, metallurgiste et electricien. 1900. BARRE, L. A., and VIGREUX, CHAS.
 Elementary treatise on theoretical mechanics. 1900. ZIWET, ALEXANDER.
 Mécanique generale. 1888. FLAMANT, A.
 Mechanical text-book or introduction to the study of
 mechanics. 1873. RANKINE, W. J. M., and BAMBER, E. F.
 Experimental mechanics. 1871. HALL, ROBERT STAWELL.
 Elements of mechanical physics. 1864. BUCKMASTER, J. C.
 Physical and celestial mechanics. 1855. PIERCE, BENJAMIN.
 Rudimentary mechanics. 1849. TOMLINSON, CHARLES.
 Elementary treatise on mechanics. 1847. WHEWELL, W.
 Treatise on mechanics. 1830. KATER, HENRY, and LARDNER, DIONYSIUS.
 A treatise of mechanics, theoretical, practical, and descriptive.
 1826. GREGORY, O.
 Lectures on select subjects in mechanics, hydrostatics, hydraulics,
 pneumatics, and optics. 1799. FERGUSON, JAMES.
 The principles of mechanics. 1794.
 See also Mathematics.

MECHANICS (APPLIED)

- Applied mechanics. 1900. COTTERBILL, JAMES H.
 Text-book on the mechanics of materials, and of beams,
 columns, and shafts. 1892. MERRIMAN, MANSFIELD.
 Applied mechanics. Part I. 1883. BOVEY, HENRY TAYLOR.
 Manual of applied mechanics. 1882. RANKINE, WILLIAM JOHN M.
 Principles of the mechanics of machinery and engineering.
 1848. WEISDACH, JULIUS.
 The mechanical principles of engineering and architecture.
 1843. MOSELEY, HENRY.
 See also Arches, Bridges-theory, Beams and Columns, Roofs,
 Statics, Strength of Materials and Structures, Machine Design,
 etc.

MENSURATION

- Useful rules and tables relating to mensuration, engineering structures, and machines. 1883. RANKINE, W. J. M.
 Quantities and measurements. 1868. BEATON, A. C.

MERCURY

- The metallurgy of silver, gold, and mercury in the United States. 1887. EGLESTON, T.
 See also Metallurgy.

METAL

- Practical metal-workers' assistant. 1867. BYRNE, OLIVER.

METALLURGY

- The manufacture and preparation of iron and steel. 1904. CAMPBELL, H. H.
 Metallurgy of iron. 1904. TURNER, T.
 Metallurgy of lead and the desilverization of base bullion. 1904. HOFMAN, H. O.
 The metallurgy of steel. 1904. HARBORD, F. W., and HALL, J. W.
 Metallurgy, iron and steel, 1904. PERCY, JOHN.
 Cyanide practice (1903). JAMES, ALFRED.
 Introduction to the study of metallurgy. 1902. ROBERTS-AUSTEN, SIR W. C.
 The metallurgy of silver. 1900. COLLINS, HARRY F.
 Notes et formules de l'ingenieur, du constructeur, du mecanicien, metallurgiste et electricien. 1900. BARRE, L. A., and VIGREUX, CHAS.
 Hand-book of metallurgy. 1898. SCHNABEL, CARL (Dr.). Translated by LOUIS, HENRY.
 The metallurgy of gold. 1892. ROSE, T. K.
 Metallurgy of silver, gold, and mercury in the United States. 1887. EGLESTON, THOMAS.
 Researches on the action of the blast furnace. 1870. SCHINZ, C.
 Metallurgy of iron and steel. 1869. OSBORN, H. S.
 A treatise on the metallurgy of iron. 1868. BAUERMAN, H.
 Mining and metallurgy of gold and silver. 1867. PHILLIPS, J. A.
 Rudimentary treatise on the metallurgy of copper. 1860. LAMBORN, ROBERT H.

METEOROLOGY

Meteorological bureau and weather service of the state of New York. 1893.

MILK

Nouveau manuel complet d'industrie laitiere, pour la province de Quebec. 1897.

HENRY, GABRIEL.

MILLS AND MILLING

Mill building construction. 1901.

TYRRELL, H. G.

MILL WORK

See Machines and Machinery.

MINING

Manual of mining. 1905.

IHLSENG, M. C., and WILSON, EUGENE B.

The coal and metal miner's pocket book. 1904.

Sampling and estimation of ore in a mine. 1904. RICKARD, T. A.

The gold mines of the world. 1902.

CURLES.

A text-book of ore and stone-mining. 1901. FOSTER, C. LENEVE.

Text-book of coal mining for use of colliery managers and others. 1901.

HUGHES, H. W.

Practical treatise on hydraulic mining in California. 1893.

BOWIE, A. J., JR.

Report of the bureau of mines. 1892.

ONTARIO BUREAU OF MINES.

Mining and metallurgy of gold and silver. 1867.

PHILLIPS, J. ARTHUR.

Vie souterraine, ou les mines et les mineurs. 1867. SIMONIN, L.

Practical mineralogy, assaying, and mining. 1863. OVERMAN, F.

The practical miner's guide. 1860.

Traite de l'exploitation des mines. 1877.

COMBES, M. C.

MINING BOOK-KEEPING

Mine accounts and mine book-keeping. 1904.

LAWN, JAMES G.

MINING LAW

Law relating to mines, minerals, and quarries in Great Britain and Ireland. 1864.

ROGERS, ARUNDEL.

A practical treatise on the law relating to mines and mining companies. 1862.

ARUNDEL, WHITTON.

MINING MACHINERY

A treatise on the steam engine in its application to mines, mills, steam navigation, and railways, 1851.

THE ARTIZAN CLUB (JOHN BOURNE, ED.).

See also Mining.

MINING REPORTS

Report book for mining engineers. 1905. CHARLESTON, A. G.

MINING SURVEYING

A treatise on mine surveying. 1904. BROUGH, B. H.

MINERALOGY

Text-book of mineralogy. 1884. DANA, ED. S.

Practical mineralogy, assaying, and mining. 1863.
OVERMAN, FREDERICK.

MISCELLANEOUS

Made in Canada, commercial and legal guide. 1905.

Progress of the century. 1901.

Dominion annual register and review for the eighteenth year of the Canadian union. 1885.

Great explorers of the nineteenth century. 1887. VERNE, JULES.

Cries, in a crisis, for statesmanship, popular and patriotic, to test and contest free trade in manufactures. 1881. MACFIE, R. A.

Over the seas and far away. 1876. HINCHLIFF, THOMAS WOODBINE.

Budget of paradoxes, A. 1872. DE MORGAN, A.

Miscellanea curiosa mathematica, or the literary correspondence of some eminent mathematicians in Great Britain and Ireland. 1749.

MORTAR

Practical treatise on limes, hydraulic cements, and mortars. 1864.

GILLMAN, A. A.

See also Bricklaying, Cement, Concrete, etc.

MOTORS

See Electric Machinery, Gas Engines, and Hydraulic Machinery.

NATURAL PHILOSOPHY

Elementary treatise on natural philosophy. 1807. HAUY, M. R. J.

NAVAL ARCHITECTURE

See Ships and Steam Vessels and Marine Engines.

NAVIGATION

Report of Elmer L. Corthell, delegate of the United States to the seventh International Congress of Navigation. 1898.

CORTHELL, E. L.

Annual report on the commerce and navigation of the United States for the fiscal year ended June 30, 1878. Part I. Foreign commerce. 1878.

U. S. TREASURY DEPARTMENT.

Tables to be used with a nautical almanac for finding the latitude and longitude at sea. 1821.

LAX, W.

See also Astronomy and Tables.

NAVIGATION—INLAND

Proceedings. Part II. Waterways and maritime works. 1902.

INTERNATIONAL ENGINEERING CONGRESS. Glasgow, 1901.

Notes—inland navigation of Canada. Ocean, river, and railway routes. Vol. I. 1888.

BAILLAIRGE, G. F.

Report on the North Sea Canal of Holland and on the improvement of navigation from Rotterdam to the sea. 1872.

BARNARD, J. G., Corps of Engineers, U.S. Army.

Letter to the Honourable the Secretary of State from the Canal Commissioners respecting the improvement of the inland navigation of the Dominion of Canada. 1871.

CANADA CANAL COMMISSION.

Practical treatise on railroads and interior communication in general. 1825.

WOOD, N.

See also Rivers and Canals.

OIL ENGINES

See Gas and Oil Engines.

OPTICS

Lectures in select subjects in mechanics, hydrostatics, hydraulics, pneumatics, and optics. 1799.

FERGUSON, J.

ORE DRESSING

Ore dressing. 1903.

RICHARDS, ROBERT H.

See also Mining.

ORES AND MINERALS

Mineral land surveying. 1906.

UNDERHILL, JAS.

Mineral resources of the United States. 1892-1904.

DAY, DAVID TALBOT.

The location and examination of magnetic ore deposits by magnetometric measurements. 1904.

HAANEL, EUGENE.

Sampling and estimation of ore in a mine. 1904. RICKARD, T. A.

Ore deposits of the United States and Canada. 1903.

KEMP, JAMES FURMAN.

Genesis of ore deposits. 1902.

POSEPNY, F.

Treatise on ore deposits. 1896.

PHILLIPS, J. ARTHUR, and LOUIS, HENRY.

Report on the mineral resources of Ontario and measures for their development. 1890.

ONTARIO ROYAL COMMISSION.

Law relating to mines, minerals, and quarries in Great Britain and Ireland. 1864.

ROBERTS, A.

Metallic wealth of the United States. 1854.

WHITNEY J. D.

See also Mining.

PAINT

Rustless coatings. 1904.

WOOD, M. P.

PALEONTOLOGY

See Geology—Paleontology.

PARLIAMENTARY PROCEDURE

Parliamentary procedure and practice in the Dominion of Canada. 1892.

BOURINOT JOHN GEORGE.

PATENTS

Patents for inventions and how to procure them. 1891.

HARDINGHAM, GEORGE GATTON MELHUISE.

PAVEMENTS

See Roads.

PERIODICALS

American Engineer and Railroad Journal.

Appleton's Mechanics' Magazine and Engineers' Journal.

The Builder.

Canadian Engineer.

Civil Engineers' and Architects' Journal.
 Electrical World.
 Engineering.
 Engineering News.
 Engineering Record.
 National Car Builder.
 Practical Mechanics' and Engineers' Magazine.
 Railroad Gazette.
 Railway Engineer.
 Scientific American.
 Van Nostrand's Eclectic Engineering Magazine.

PERMANENT WAY

Notes on track construction and maintenance. 1904. CAMP, W. M.
 See also Railways.

PERSPECTIVE

See Drawing.

PETROLEUM

Well-boring for water, brine, and oil. 1902. ISLER, C.
 A practical treatise on petroleum. 1887. CREW, BENJAMIN J.

PHYSICS

Conservation of energy. 1875. STEWART, BALFOUR
 Elements of mechanical physics. 1864. BUCKMASTER, J. C.

PIPES

See Hydraulics.

PLASTERING

New guide to masonry, bricklaying, and plastering. BURN, R. S.

PNEUMATICS

Lectures in select subjects in mechanics, hydrostatics, hydraulics, pneumatics, and optics. 1799. FERGUSON, J.

POCKET-BOOKS

See Tables.

POWER, POWER PLANTS, AND POWER TRANSMISSION

Motive powers and their practical selection. BOLTON, REGINALD.

Mechanical engineering of power plants. 1905.

HUTTON, FREDERICK REMMEN.

Rope driving. 1903.

FLATHER, JOHN J.

See also Electricity, Hydraulics, Steam, Water Power, etc.

PRESSER

Hydraulic, steam, and hand-power lifting and pressing machinery. 1881.

COLTIER, F.

PRICES

Mechanics' and builders' own price book, also a treatise on architecture. 1856.

WILSON, J.

See also Costs.

PRIME MOVERS

See Power, Power Plants, and Power Transmission.

PROCEEDINGS

See Societies

PUBLIC LANDS

Rapport du commissaire de la couronne du Canada pour l'annee. 1856.

CANADA CROWN LANDS COMMISSION.

PUBLIC WORKS

General report of the minister of public works, from June, 1867, to July, 1882. 1883.

CANADA DEPARTMENT OF PUBLIC WORKS.

General report of public works, Canada, 1867. 1868.

CANADA DEPARTMENT OF PUBLIC WORKS.

Public works reports. 1850, 1853, 1855, 1856, 1870.

CANADA DEPARTMENT OF PUBLIC WORKS.

Mayor's annual message, and report of the department of public works of the city council of the city of Chicago, 1891 and 1895.

CHICAGO PUBLIC WORKS DEPARTMENT.

Twelfth annual report of the department of public works of the city council of the city of Chicago for the fiscal year ending December 31st, 1887. 1888.

CHICAGO PUBLIC WORKS DEPARTMENT.

Report of the state engineer to the governor of Colorado. 1889.

COLORADO STATE ENGINEER.

Public works of Great Britain. 1838.

MIMMS, F. W.

Rapport du bureau des travaux publics. 1844-1845. MONTREAL.

Annual report of the state engineer and surveyor of the state of New York and of the railroad corporations, 1866-1867.

NEW YORK STATE.

Annual report of the city engineer of the city of Omaha, Jan. 1, 1894.

Reports, aqueducts, roads and railroads, docks, etc. 1884.

LAILLAINGE, C. P.

Report of the commissioner of public works. 1851, 1854, 1855, 1859.

QUEBEC COMMISSIONER OF PUBLIC WORKS.

Annual report of city engineer for 1890.

TORONTO CITY ENGINEER.

See also Canals, Docks, Harbours, Railways, Rivers, Water Supply.

PUMPS

Pumps and hydraulics. 1905.

ROGERS, V.

The centrifugal pump, turbines, and water motors. 1893.

INNES, C. N.

See also Hydraulics, Machinery.

QUANTITIES AND MEASUREMENTS

Quantities and measurements. 1868.

BEATON, ALFRED CHARLES.

Rock excavation, method and cost. 1904.

GILLETTE, H. P.

QUARRIES

Law relating to mines, minerals, and quarries in Great Britain and Ireland. 1864.

ROGERS, A.

Rudimentary treatise on the blasting and quarrying of stone. 1849.

BURGOYNE, J.

See also Excavation, Blasting, and Mining.

RADIOACTIVITY

Radioactivity. 1905.

RUTHERFORD, E.

RAILWAYS

Notes on track construction and maintenance. 1904. CAMP, W. M.

- A treatise on wooden trestle bridges according to the present practice of American railroads. 1904. FOSTER, W. C.
 International Engineering Congress, Glasgow, 1901. Proceedings Section I. Railways
 Buildings and structures of American railroads. 1900. BERG, W. G.
 Railway engineering. 1897. HALDANE, J. W. C.
 Biographical directory of the railway officials of America. 1885. TALBOTT, E. H., and HOBART, H. R.
 Iron truss bridges for railroads. 1870. MERRILL, W. E.
 Railway property, a treatise on the construction and management of railways. 1861. JERVIS, JOHN B.
 Railway reports. 1855.
 Railway and canal reports. 1850-1855.
 Our iron roads. 1852. WILLIAMS, FREDERICK S.
 A treatise of the steam engine in its application to mines, mills, steam navigation, and railways. 1851. THE ARTIZAN CLUB (JOHN BOURNE, ED.).
 Railway economy. 1850. LARDNER, DIONYSIUS.
 Railway economy in Europe and America. 1850. LARDNER, DIONYSIUS.
 Report of the commission appointed to enquire into the application of iron to railway structures. 1849. GREAT BRITAIN.
 Railway practice, 1827, 1837, 1847. BRES, S. C.
 Practical railway engineer. 1847. DEMPSEY, G. DRYSDALE.
 Examples of railway making. 1843. WEALE, JOHN.
 Rules and data for the steam engines and for railways, canals, and turnpike roads. 1839. ADCOCK, HENRY.
 Practical treatise on railways. 1839. LE COUNT, PETER.
 Practical treatise on railroads and interior communication in general. 1825. WOOD, NICHOLAS.
 Roads and railroads.

RAILWAYS—SPECIAL

- Report and documents in reference to the Canadian Pacific Railway. 1880. FLEMING, SANDFORD.
 Report on surveys and preliminary operations on the Canadian Pacific Railway. 1877. FLEMING, SANDFORD.
 Reports of board of trade on railways. 1845. GREAT BRITAIN BOARD OF TRADE.

- History and description of the Great Western Railway. 1848.
BOURNE, JOHN C.
- The Intercolonial, a history. 1876.
FLEMING, SANDFORD
- Drawings of the London & Birmingham Railway. 1839.
BOURNE, JOHN C.
- Report on the Port Huron and Lake Michigan (Michigan Northern) Railway. 1854.
SHANLY, WALTER.
- Sixteenth annual report for the fiscal year ending 30th June, 1898.
NEW YORK RAILROAD COMMISSIONERS.
- Annual report of the state engineer and surveyor of the state of New York and of the railroad corporations, 1907.
NEW YORK STATE
- Report on the gauge for the St. Lawrence and Atlantic Railroad, 1847.
MORTON, A. C., chief engineer.
- Detailed history of the railways in the South African war, 1899-1902.
ROYAL ENGINEERS' INSTITUTE.
- Manual of the railroads of the United States, 1868-1870.
POOR, H. V.
- Report of explorations and surveys to ascertain the most practicable and economical route for a railroad from the Mississippi river to the Pacific Coast, 1857.
U. S. DEPARTMENT OF INTERIOR.
- Railway to the Pacific, northern route, its general character, relative merits, etc. 1854.
JOHNSON, EDWIN F.
- Documents in relation to the Canadian and North American railway, 1851.
MAINE LEGISLATURE.
- Exhibit of the Wisconsin Central Railroad Company. 1857.
WISCONSIN CENTRAL R.R.

RAILWAYS—LOCATION AND SURVEYING

- Field practice of laying out circular curves for railroads, 1887.
TRAUTWINE, JOHN C.
- Field engineering, 1904.
SEARLES, WILLIAM A.
- Economic theory of the location of railways. 1857.
WELLINGTON, A. M.
- See also Surveying.

RAILWAYS—MOTIVE POWER

See Locomotives and Railways.

RAILWAYS—SIGNALS

Block signal operation, 1902.

DERR, W. L.

RECEIPTS

Spols mechanics' own book, 1905.

See also Tables.

REFRACTORY MATERIALS

Fuels and refractory materials, 1907.

SEXTON, H. H.

See also Metallurgy.

REFRIGERATION

See Cold and Refrigeration.

RESERVOIRS

Reservoirs for irrigation, water power, and municipal water supply, 1901.

SCHUYLER, JAMES DIX.

See also Public Works and Water Supply

RESISTANCE OF MATERIALS

See Strength of Materials.

RIVERS

Hydraulics of great rivers, the Parana, Uruguay, and the La Plata estuary, 1874.

REY, J. J.

The Kansas City bridge, with an account of the regimen of the Missouri river, and a description of methods used for sounding in that river, 1870.

CHANUTE, O., and MORISON, GEO.

Letter from Col. John F. B. Croyle to the Rt. Hon. John Cam Hobhouse, 1833.

SHANNON RIVER NAVIGATION.

Topographical engineers' report on river and harbour improvements on the Great Lakes, 1858.

U. S. SENATE.

See also Harbours, Waterways, etc.

RIVERS—IMPROVEMENT

Improvement of non-tidal rivers, 1881.

JANICKI, N., JACQUET, L., et PASQUEAU, A. Tr. by

MERRILL, WILLIAM E., Bvt.-Col. U.S.A.

Remarks on the improvement of tidal rivers, 1845.

STEVENSON, DAVID.

Report of the joint board, consisting of the Metropolitan Park commission and the state board of health upon the improvement of Charles river from the Waltham line to the Charles river bridge, 1894.

- Report of an examination of the Upper Columbia river and the territory in its vicinity in 1881, to determine its navigability, etc. 1882. SYMONS, THOMAS W.
- Cartes du Delta du Danube. 1887. COMMISSION EUROPEENNE.
- Memoire sur les travaux d'amelioration du cours du Bas Danube executes pendant la periode 1873-1886-1888. COMMISSION EUROPEENNE.
- A history of the jetties at the mouth of the Mississippi river. 1880. CORTHELL, E. L.
- Official documents and other information relating to the improvement of the ship channel between Montreal and Quebec. 1884.
- Fourth report of the commissioners for the improvement of the river Shannon. 1839.
- Appropriations and expenditures for rivers and harbours. 1889, 1883. U. S. HOUSE OF REPRESENTATIVES.
- Appropriations and expenditures for rivers and harbours. 1884. U. S. HOUSE OF REPRESENTATIVES.
- Maps, reports, estimates, etc., relative to improvements of the River St. Lawrence. 1856. CANADA LEGISLATIVE ASSEMBLY.
- See also Harbours, Public Works, Water Supply.

ROADS

- City roads and pavements, suited to cities of moderate size. 1900. JUDSON, WILLIAM PIERSON.
- American highways. 1896. SHALEE, N. S.
- A manual of the principles and practice of road-making. 1847. GILLESPIE, W. M.
- Treatise on roads. 1845. WHITMAN, GEORGE.
- Rules and data for the steam engine and for railways, canals, and turnpike roads. 1839. ADCOCK, HENRY.
- A treatise on roads. 1838. BLOODGOOD, S. DEWITT.
- Practice of making and repairing roads; of constructing footpaths, fences, and drains. 1838. HUGHES, THOMAS.
- Practical treatise on railroads and interior communication in general. 1825. WOOD, N.
- Roads and railroads.

ROCK DRILLS

- Tunnelling, explosive compounds, and rock drills. 1893. DRINKER, H. S.

ROCK EXCAVATION

Rock excavation, methods, and cost. 1904.

GILLETTE, HALBERT POWERS.

See also Excavation, Quarrying, Tunnels, and Mining.

ROOFS

Text-book on roofs and bridges. 1891-1900.

MERRIMAN, MANSFIELD, and JACOBY, HENRY S.

Treatise on the theory of the construction of bridges and roofs. 1900.

WOOD, DE V.

Trusses and arches analyzed and discussed by graphical methods. Part I. Roof trusses. 1897.

GREENE, CHAS. E.

See also Beams and Columns, Bridges, Mechanics Applied, Statics, and Strength of Materials and Structures.

ROPES

Rope driving. 1903.

FLATHER, J. J.

ST. LOUIS

Mayor's message, with accompanying documents to the city council of St. Louis at its May session. 1872.

ST. LOUIS CITY COUNCIL.

SALT

Well-boring for water, brine, and oil. 1902.

ISLER, C.

SANITARY ENGINEERING

Sanitary engineering. 1901.

MOORE, COL. E. C. S.

Elements of sanitary engineering. 1899. MERRIMAN, MANSFIELD.

Atti della commissione istituita per studiare e proporre i mezzi de rendere le piene del fevere innocue alla citta di Roma.

F. Boards. Rome, 1872.

See also Sewage and Water Supply.

SEWAGE AND SEWERAGE

Report on sewage purification at Columbus, Ohio (1905).

Report on water purification investigation and on plans proposed for sewerage and water-works systems. 1903.

NEW ORLEANS SEWFRAGE AND WATER BOARD.

Sewage disposal in the United States. 1900.

RAFTER, GEO. W., and BAKER, M. N.

Modern methods of sewage disposal. 1896. WARING, GEORGE E.

The cleaning and sewerage of cities, 1895.

BAUMEISTER, R., Tr. by GOODELL, J. M.

See also Hygiene, Sanitary Engineering, etc.

SHIPS AND STEAM VESSELS

Practical ship-building, 1904.

HOLMS, A. CAMPBELL.

Naval architecture, 1904.

PEABODY, CECIL H.

Resistance and propulsion of ships, 1903.

DURAND, WILLIAM F.

Steamships and their machinery, 1893.

HALDANE, J. W. C.

A treatise of the steam engine in its application to mines, mills, steam navigation, and railways, 1851.

THE ARTIZAN CLUB (JOHN BOURNE, ED.).

See also Navigation, Marine Engines, etc.

SIGNALS

See Railway Signals.

SILVER

The metallurgy of silver, 1900.

COLLINS, H. F.

The metallurgy of silver, gold, and mercury in the United States, 1887.

EGLESTON, T.

Mining and metallurgy of gold and silver, 1867.

PHILLIPS, A. J.

See also Metallurgy.

SOCIETIES

American Institute of Electrical Engineers.

American Institution of Mining Engineers.

American Railway Engineering and Maintenance of Way Association.

American Society of Civil Engineers.

American Society of Mechanical Engineers.

American Society for Testing Materials.

Canadian Institute.

Canadian Mining Institute.

Canadian Society of Civil Engineers.

Cleveland Institute of Engineers.

Corps of Royal Engineers.

Engineering Association of New South Wales.

Engineers' Club of Philadelphia.

Federated Mining Institute of Canada.
 Franklin Institute.
 Highland and Agricultural Society of Scotland.
 Institution of Civil Engineers.
 Institution of Electrical Engineers.
 Institution of Mechanical Engineers.
 Iron and Steel Institution.
 Junior Engineering Society.
 Liverpool Engineering Society.
 Mining Institute of Scotland.
 Municipal Engineers of the City of New York.
 North of England Institution of Engineers and Ship Builders.
 Nova Scotian Institute of Natural Science.
 Royal Artillery Institution.
 Royal Institution of British Architects.
 Royal Scottish Society of Arts.
 Royal Society of Canada.
 Royal Society of Edinburgh.
 Smithsonian Institution.
 Société des Ingenieurs Civils.
 Société Scientifique Industrielle de Marseille.
 Society of Arts.
 Society of Engineers.
 South Wales Institute of Engineers.
 Technical Society of the Pacific Coast.
 United Service Institution.
 United States Army Corps of Engineers.
 United States Naval Institute.
 Victorian Institution of Surveyors.
 See also Congresses and complete list of society transactions.
 Part II.

SOLOMON'S TEMPLE

Solomon's temple. 1886.

PAINE, T. O.

SOUTH AFRICA

Detailed history of the railways in the South African war.
1899-1902. ROYAL ENGINEERS' INSTITUTE.

SPECIFICATIONS

See Contracts and Specifications.

STAMP MILLS

The stamp milling of gold ores, 1901.

RICKARD, T. A.

See also Gold, Metallurgy, and Ore Dressing.

STATICS AND GRAPHIC STATICS

Statics, by algebraical and graphic methods, 1903.

JOHNSON, LEWIS J.

Winslow tables. Diagrams for calculating the strength of
wood, steel, and cast iron beams and columns, 1900.

WINSLOW, B. E.

Elements of graphic statics, 1899.

HOSKINS, L. M.

Graphic statics, 1893.

MERRIMAN, MANSFIELD, and JACOBY, HENRY S.

Elements of graphic statics, 1885.

VAN OTT, CARL (Tr. by CLARKE, G. S.).

Graphical determination of forces in engineering structures.
1881.

CHALMERS, JAMES B.

New method of graphical statics, 1875.

DUBOIS, A. J.

See also Arches, Beams and Structures, Bridges-Theory,
Mechanics Applied, Roofs, and Strength of Materials and Structures.

STEAM

Tables of the properties of saturated steam and other
vapours, 1900.

PEABODY, CECIL H.

Report of experiments on the evaporative power and other
properties of coals.

JOHNSON, W. R.

STEAM BOILERS

Steam boilers, 1904. PEABODY, CECIL H., and MILLER, EDWARD F.

Steam boilers, their theory and design, 1903. PARSONS, H. DE B.

Boiler tests, embracing the results of 137 evaporative tests
made on 71 boilers, conducted by the author, 1900.

BARRUS, GEO. H.

Rudimentary treatise on steam boilers, 1857.

ARMSTRONG, R.

STEAM ENGINES

- Balancing of engines, 1902. DALBY, W. E.
 Steam engine and other heat engines, the, 1899. EWING, J. A.
 The marine steam engine, 1898. LENNET, R., and ORAM, H. J.
 Modern steam practice and engineering, 1883.
 WINTON, JOHN G., and MILLAR, W. J.
 Manual of the steam engine and other prime movers, 1882.
 RANKINE, WILLIAM JOHN M.
 Examples of steam, air, and gas engines, 1878. BOURNE, JOHN.
 Marine steam engine, the, 1852.
 MAIN, T. J., and BROWN, THOMAS.
 A treatise of the steam engine and its application to mines,
 mills, steam navigation, and railways, 1851.
 THE ARTIZAN CLUB (JOHN BOURNE, ED.).
 Locomotive and stationary engines, 1850.
 TREDGOLD, THOMAS.
 Rudimentary treatise on the steam engine for the use of
 beginners, 1848.
 LARDNER, DIONYSIUS.
 Rules and data for the steam engine and for railways,
 canals, and turnpike roads, 1839.
 ADCOCK, HENRY.
 History and progress of the steam engine, 1836.
 GALLOWAY, ELIJAH.
 Steam engine, its invention and progressive movement, 1838.
 TREDGOLD, THOMAS.
 See also Marine Engines, Power, Steam, Locomotives, and
 Railways—Motive Power.

STEAM TURBINES

- The steam turbine, with an appendix on the gas turbine and
 the future of heat engines, 1905.
 STODOLA, DR. A., Tr. by LOEWENSTEIN, L. C.
 See also Steam and Steam Engines.

STEEPLES

- Towers and steeples designed by Sir Christopher Wren, 1881.

TAYLOR, ANDREW T.

STEREOMETRY

- Stereometry tables, 1884.
 Clef du tableau stereometrique, 1874.
 See also Descriptive Geometry.

BAILLAIRGE, C.
 BAILLAIRGE, CHAS

STONE

Rudimentary treatise on masonry and stone-cutting for the use of beginners. 1899. DOBSON, E.

Rudimentary treatise on the blasting and quarrying of stone. 1849. BURGOYNE, MAJ.-GEN. SIR JOHN.

See also Quarrying and Foundations.

STREETS

City roads and pavements, suited to cities of moderate size. 1902.

JUDSON, W. P.

STREET CLEANING

The cleaning and sewerage of cities. 1895.

BAUMEISTER, R.

STRENGTH OF MATERIALS AND STRUCTURES

Resistenza dei materiali. 1905.

GALLIGIA, PIETRO.

Elasticity and resistance of the materials of engineering. 1903.

BURR, WILLIAM H.

Materials of construction, a treatise on the strength of engineering materials. 1900.

JOHNSON, J. B.

Winslow tables, diagrams for calculating the strength of wood, steel, and cast iron beams and columns. 1900.

WINSLOW, B. E.

Strength of materials. 1899.

EWING, J. A.

Treatise on the resistance of materials and an appendix on the preservation of timber. 1877.

WOOD, DE VOLSON.

Theory of strains in girders and similar structures. 1869.

STONEY, BINDON B.

On the strength of cast iron pillars. 1865.

FRANCIS, JAMES B.

A treatise on the strength of timber, cast iron, malleable iron, and other materials. 1837.

BARLOW, PETER.

On the application of iron to building purposes. 1870.

FAIRBAIRN, SIR WM.

Results of an experimental inquiry into tensile strength and other properties of various kinds of wrought iron and steel.

KIRKALDY, DAVID.

See also Mechanics Applied, Statics, Beams and Columns, Bridges-Theory, Arches, Roofs, Stresses and Strains.

STRESSES AND STRAINS

Stresses in simple trusses. 1891.

MERRIMAN, MANSFIELD, and JACOBY, HENRY S.

Strain in framed structures. 1890.

DUBOIS, A. JAY.

See also Arches, Beams and Columns, Bridges-Theory, Mechanics Applied, Roofs, Statics, and Strength of Materials and Structures.

STRUCTURES

See Buildings.

SUBWAYS

See Tunnels.

SUN

See Astronomy.

SURVEYING AND LEVELLING

Mineral land surveying. 1906.

UNDERHILL, J.

Treatise on mine surveying. 1904.

BROUGH, BENNETT H.

The location and examination of magnetic ore deposits by magnetometric measurements. 1904.

HAANEL, E.

Treatise on surveying, comprising the theory and practice. 1902.

GILLESPIE, W. M., and STALEY, CADY.

Surveying and levelling instruments theoretically and practically described. 1895.

STANLEY, WILLIAM FORD.

Engineers' surveying instruments. 1892.

BAKER, IRA O.

Introduction to geodetic surveying. 1892.

MERRIMAN, MANSFIELD.

Theory and practice of surveying. 1887.

JOHNSON, J. B.

Field practice of laying out circular curves for railroads. 1887.

TRAUTWINE, J. C.

Rapports sur le nivellement geodesique, entre le Lac Champlain et l'onde marée du Saint-Laurent (1884?).

PERLEY, H. F., and STECKEL, R.

Reports on the geodetic levelling between Lake Champlain and tidewater in the St. Lawrence (1884?).

PERLEY, H. F., and STECKEL, R.

Annual report of the state engineer and survey, or of the state of New York and of the railroad corporations. 1867.

NEW YORK STATE.

Treatise on the principles and practice of levelling. 1846.

SIMMS, FREDERICK W.

See also Curves, Railways, Location, and Surveying.

SURVEYS

See under Railways.

SWITZERLAND

Atlas über die Entwicklung von Industrie und Handel der Schweiz. 1873.

WARTMAN, H.

TABLES

Osborn's tables of moments and squares of radii of gyration. 1886.

OSBORN, FRANK C.

Winslow tables, diagrams for calculating the strength of wood, steel, and cast iron beams and columns. 1900.

WINSLOW, BENJAMIN E.

Catalogue of the mean declinations of 981 stars. 1873.

SAFFORD, T. H.

Astronomical tables and formulæ. 1827.

BAILY, FRANCIS.

Smoley's tables. 1902.

SMOLEY, C.

Tables to be used with a nautical almanac for finding the latitude and longitude at sea. 1821.

LAX, W.

De pontibus. 1896.

WADDELL, J. A. L.

Tables for the computation of railway and other earthwork. 1886.

CRANDALL, C. L.

Structural engineering tables. 1905.

GODFREY, E.

The "engineering" and electric traction pocket book. 1903.

DAWSON, P.

Notes et formules de l'ingenieur, du constructeur, du mecanicien, metallurgiste et electricien. 1900.

BARRE, L. A., and VIGREUX, C.

Civil engineers' pocket book. 1894.

TRAUTWINE, J. C.

Hydraulic tables. 1852.

BEARDMORE, NATHANIEL.

Sherwin's mathematical tables. 1742.

Chambers' mathematical tables. 1867.

Tables of the properties of saturated steam and other vapours. 1900.

PEABODY, C. H.

Mechanical engineers' pocket book. 1904.

KENT, WILLIAM.

Pocket book for mechanical engineers. 1903.

LOWE, DAVID ALLAN.

The mechanical engineers' pocket book, 1899. FOWLER, WM. H.
 Pocket book of useful formulae and memoranda for civil
 and mechanical engineers, 1889. MOLESWORTH, SIR GUILFORD L.
 Manual of rules, tables, and data for mechanical engineers.

CLARK, DANIEL KINNEAR.

The coal and metal miners' pocket book, 1904.

Stereometry tables, 1844.

BAILLAIRGE, CHARLES.

Tables for spiral curves, with instruction in their use, 1905.

WEATHERBE, KARL.

The transition curve.

CRANDALL, C. L.

Conversion tables of metric and British or U.S. weights and
 measures, 1883.

THURSTON, ROBERT H.

Useful rules and tables relating to mensuration, engineering
 structures, and machines, 1883. RANKINE, WILLIAM JOHN M.

Tables showing difference of level in feet, corresponding to a
 given angle, when the distance is read in metres or feet, 1879.

OCKERSON, J. A., and TEEPLE, JARED.

See also under Specific Subjects.

TANKS

Towers and tanks for water works, 1904. HAZLEHURST, J. N.

TELEPHONES

See Electricity—Telegraphs and Telephones.

TESTS

Hand-book of electric testing, 1900.

KEMP, H. R.

Testing of electro-magnetic machinery and other apparatus,
 1904.

SWENSON, B. V., and FRANKENFIELD, B.

Report of the board of engineer officers on testing hydraulic
 cements, with specifications for the several classes used by
 the engineer department, 1901. U. S. ARMY CORPS OF ENGINEERS.

Reports of tests of metals and other materials for industrial
 purposes, 1884-1889.

U. S. WAR DEPARTMENT.

See also under the several subjects.

THEORY OF STRUCTURES

See Mechanics Applied.

THERMODYNAMICS

See Compressed Air, Heat Engines, and Steam Engines.

TIMBER

Treatise on the resistance of materials and an appendix on the preservation of timber. 1877. WOOD, DE V.

Descriptive catalogue of the woods commonly employed in this country for the mechanical and ornamental arts. 1852. BOYLE, DR.

TOPOGRAPHY

Preliminary report on the Ohio co-operative topographic survey. 1903.

Manual of topographical methods. 1893.

U.S. geological survey. Monograph 22.

GANNET, HENRY.

See also Surveying and Levelling and Maps.

TOWERS

Towers and steeples designed by Sir Christopher Wren. 1881.

TAYLOR, ANDREW T.

TRACK

See Permanent Way.

TRANSACTIONS

See Societies.

TRANSFORMERS

See Electricity—Transmission and Distribution.

TRESTLES

See Bridges.

TRIGONOMETRY

See Mathematics.

TRUSSES

Stresses in simple trusses. 1891.

Trusses and arches, analyzed and discussed by graphical methods. (Part I. Roof trusses.) 1897. GREEN, CHARLES E.

See also Bridges, Roofs, Strength of Materials, etc.

TUNNELS

Tunnelling, a practical treatise. 1902.

PRELINI, CHARLES, and HILL, CHARLES S.

Third annual report of the Boston transit commission for the year 1897. BOSTON TRANSIT COMMISSION.

Tunnelling, explosive compounds, and rock drills. 1893.

DRINKER, H. S.

The Vosburg tunnel, a description of its construction. 1887.

VON ROSENBERG, LEO.

Practical tunnelling. 1877.

SIMMS, FREDERICK WALTER.

See also Mining.

TURBINES

Modern turbine practice and water-power plants. 1903.

THURSO, J. W.

Turbines, theoretical and practical. 1901. WOOD, DE VOLSON.

Hydraulics, motors, turbines, and pressure engines. 1895.

BODMER, G. R.

The centrifugal pump, turbines, and water motors. 1893.

INNES, C. H.

See also Hydraulic Machinery and Steam Turbines.

TURNERY

Turning and mechanical manipulation. Vol. 2. 1847.

HOLTZAPFEL, CHARLES.

U. S. ARMY

The engineer department of the U.S. army at the International Exhibition, 1876. 1884.

HEAP, CAPT. D. P.

UNITED STATES

See Author's List.

VARNISHES

Rustless coatings. 1904.

WOOD, M. P.

WALLS

Text-book on retaining walls and masonry dams. 1892.

MERRIMAN, MANSFIELD.

WATER SUPPLY AND WATER WORKS

Hydrology of the state of New York. 1905.

Edinburgh and district water. 1905.

TAIT, W. A.

Towers and tanks for water works. 1904. HAZLEHURST, J. N.

Report on water purification investigation and on plans proposed for sewerage and water works systems. 1903.

NEW ORLEANS SEWERAGE AND WATER BOARD.

Water filtration works. 1901.

FUENTES, JOHN H.

Purification of the Washington water supply. 1901.

MOORE, CHAS. (Ed.).

Public water supplies, requirements, resources, and construction of works. 1901.

TURNHAUSE, F. E., and RUSSELL, H. L.

Water supply engineering. 1900.

FOLWELL, A. PRESCOTT.

Inquiry into the conditions relating to the water supply of the city of New York. 1900.

MERCHANTS ASSOCIATION OF NEW YORK.

Report of the filtration commission of the city of Pittsburgh, Pennsylvania. 1909.

PITTSBURGH FILTRATION COMMISSION.

Some details of water works construction. 1898.

BILLINGS, WILLIAM R.

115 experiments on the carrying capacity of large rivetted metallic conduits up to 6 feet per second of velocity of flow. 1897.

HERSCHEL, CLEMENS.

Report for 1884. 1885.

PHILADELPHIA CHIEF ENGINEER WATER DEPT.

Report of current-meter observations in the Mississippi river, near Burlington, Iowa, during the month of October, 1879. 1884.

MACKENZIE, ALEXANDER.

Manual of hydrology. 1862.

BEARDMORE, NATHANIEL.

See also Aqueducts, Public Works, Reservoirs, Rivers.

WELLS

Well-boring for water, brine, and oil. 1902.

ISLER, C.

Rudimentary treatise on well digging and boring, etc. 1849.

SWINDELL, JOHN GEORGE.

WOOD

See Timber.

WORKS

See Public Works.

WREN, SIR CHRISTOPHER

Towers and steeples designed by Sir Christopher Wren. 1881.

TAYLOR, A. T.

ZINC

Report of the commission appointed to investigate the zinc resources of British Columbia and the conditions affecting their exploitation. 1906.

CANADA DEPT. OF THE INTERIOR.

Addenda

FOR

Subject Catalogue of Bound Books

CHEMISTRY

Inorganic and Organic. London, 1903. Rev. by J. Millar Thomson, LL.D., F.R.S.

BLOXAM, CH. LONDON (F.I.C.)

MATERIALS IN CONSTRUCTION

Inspection of the materials and workmanship employed in construction. Inspector's Pocket Book. New York, 1906.

BRYNE, AUSTIN T.

MINERAL INDUSTRY

Its statistics, technology and trade during 1905. Vol. 14, supplemental to Vols 1-13. New York and London, 1906.

ED. INGALLS, W. R.

RIVERS

The Improvement of Rivers. A treatise on the methods employed for improving streams for open navigation, and for navigation by means of locks and dams. London, 1905.

B. F. THOMAS AND D. A. WATT.

ROOFS

The graphic method by influence lines for bridge and roof computations. New York and London, 1905.

WM. H. BURR AND MYRON A. FALK.

SWITCHBOARDS

For power, light and railway service—direct and alternating current—high and low tension. New York, 1906.

WM. BAXTER, JR.

Part III.

Authors' Catalogue of Unbound Periodicals, Pamphlets, and Transactions



ADAMS, JULIUS W., AND HERING, RUDOLF

Report on the improved sewerage system (for Newark). O.
(1884).

AIYAR, A. V. RAMACHANDRA

Architecture, revival of the art necessary in India. D. Madras,
1899

AMERICAN ARCHITECT AND BUILDING NEWS

Weekly, New York, 1896—

AMERICAN ENGINEER AND RAILROAD JOURNAL

Monthly, New York, 1897—

AMERICAN INSTITUTE OF ARCHITECTS

Annual Convention Report, Washington, 1890—

Quarterly Bulletin, Washington, April, 1900—

AMERICAN INSTITUTE OF MINING ENGINEERS

Bi-monthly Bulletin, Philadelphia, March, 1905—

AMERICAN IRON AND STEEL ASSOCIATION

Statistics of the American and foreign iron trades in 1879.
Annual report of the secretary of the American Iron and Steel
Association, containing statistics of the American iron trade to
Jan. 1, 1880, and a review of the present condition of the iron
industry in foreign countries. O. Philadelphia, 1880.

**AMERICAN RAILWAY ENGINEERING AND MAINTENANCE
OF WAY ASSOCIATION**

Bulletin, Chicago, October, 1902— Incomplete.

AMERICAN SOCIETY OF CIVIL ENGINEERS

Proceedings, New York, 1896—

AMERICAN WATER WORKS ASSOCIATION

Proceedings, Boston, 1903—

ANDERSON, WILLIAM

The interdependence of abstract science and engineering. Being the "James Forrest" lecture delivered at the Institution of Civil Engineers, Session 1892-3. O. London, 1893.

ARCHITECTURAL ASSOCIATION

Session 1891-92. O. London, 1892.

ARGENTINA—MINISTER OF PUBLIC WORKS

Specifications for the testing of Portland cement, to be used on national works. Q. Buenos Ayres, 1901.

ARGENTINA—OBRAS PUBLICAS

Boletín, 1901—

ARMOUR INSTITUTE OF TECHNOLOGY

Year Book, 1895— Missing 1900-1901.

ASSOCIATION OF CIVIL ENGINEERS OF CORNELL UNIVERSITY

Journal. Incomplete.

ASSOCIATION OF DOMINION LAND SURVEYORS

Report of proceedings, at its eighth annual meeting held at Ottawa, February 17 and 18, 1891. O. Ottawa, 1891.

ASSOCIATION OF ENGINEERING SOCIETIES

Journal, Monthly, Boston, 1894—

ASSOCIATION OF ENGINEERS OF VIRGINIA

Transactions. From July, 1891, to March, 1893. O. Roanoke, 1893.

Proceedings of the first summer meeting of the Association of Engineers of Va., held at Virginia Beach, July 23, 24, 25, 1881. O.

**ASSOCIATION OF LAND SURVEYORS OF THE PROVINCE OF
ONTARIO**

Annual report of proceedings, Toronto, 1894-1900, 1904—

ASSOCIATION OF PROVINCIAL LAND SURVEYORS OF ONTARIO
Minutes of the second annual meeting, 1887. O. (Toronto, 1887.)

ATLANTA.

See Hering, Rudolf.

AUCHLINCLOSS, W. S.

Waters within the earth and laws of rainflow. O. Philadelphia, 1897.

BAILLAIRGE, CHARLES

The aqueduct, Quebec, September, 1885.

Asphalt block pavement. O. Reprinted from the Canadian Engineer, September, 1899.

La Baie Hudson. Exploitation proposee de ses ressources de terre et de mer. Nouvelle Colonie. Chemin de fer pour s'y rendre. O. Joliette, 1893.

La communisme. O.

Key to the stereometrical or application of the prismoidal formula to all solids, with tables of squares and square roots, circumferences, and areas of circles to eighths, tenths, and twelfths of unity. Sides of equal squares, lengths of elliptic arcs, areas of segments, and zones of a circle, specific gravities, mensuration of areas, etc. O. Quebec, 1876.

Nouveau dictionnaire francais systeme "educationnel" rimes, consonnances, homonymes, decomposition des mots, combinaisons variees de leurs elements et equivalents, jeux de mots. O. Quebec, 1888.

Papers read before the Royal Society of Canada, 1882 and 1883, biographical sketch of the author. O. Quebec, 1884.

Rapport de l'ex-ingenieur de la cite des travaux faits sous le Maire, Hon. S. N. Parent et le Conseil-de-Ville actuels et sous leurs predecesseurs durant le dernier tiers de siecle, 1866-1899. Suggestions de certaines constructions a faire, propres a rendre la ville attrayante de prospere. O. Quebec.

BAILLAIRGE, G. F.

Alphabetical record of engineers and superintendents, etc., and of the principal public works on which they have reported or

been employed, from the time of their commencement in 1779 to 1891. Q.

Canada from the Atlantic to the Pacific and Arctic oceans, Arctic voyages, voyages of discovery in the north, and public works, etc., etc. O. (1890.)

BAILLAIRGE,—

Address of welcome to the Montreal section of Canadian architects on the occasion of the annual meeting of the Association, and luncheon offered by the Quebec section to their metropolitan confreres at the Chateau Frontenac, Quebec.—October, 2, 1895. O.

BALTIMORE HEALTH DEPARTMENT

Annual report of the health department to the mayor and city council of Baltimore, for the fiscal year ending December 31st, 1880. O. Baltimore, 1880.

BARR, ARCHIBALD

Address on the application of the science of mechanics to engineering practice. O. London, 1899.

BARTLETT, JAMES HERBERT

Imports, exports, and domestic production of iron, steel, and coal. Compiled from official returns of the Dominion of Canada. O. (1885 or 1886.)?

The manufacture, consumption, and production of iron, steel, and coal in the Dominion of Canada, with some notes on the manufacture of iron and on the iron trade in other countries. O. Montreal, 1885.

BAUSCHINGER, J.

Resolutions of the conventions held at Munich, Dresden, Berlin, and Vienna, for the purpose of adopting uniform methods for testing materials with regard to their mechanical properties. O. Washington, 1896.

BEAUDRY, J. A. U.

Report on the Quebec water works, April, 1883. O. Montreal, 1883.

BELL, ROBERT

On glacial phenomena in Canada. O. Washington, 1890. (Bulletin of the Geological Society of America.)

The nickel and copper deposits of Sudbury District, Canada. With an appendix on the silicified Glass-Breccia of Vermilion river, Sudbury District, by George H. Williams. O. Rochester, 1891. (Bulletin of the Geological Society of America)

BERLINGUET, FRANCOIS XAVIER

Report and plans on general improvements in the Quebec harbour submitted to the Harbour Commissioners by F. X. Berlinguet. Q. Quebec, 1875.

BIBLIOGRAPHIE DES SCIENCES ET DE L'INDUSTRIE

Monthly, Paris, 1899, 1901, November, 1904—

BIXBY, W. H.

See U. S. Army Eng. Dept.

BLACKWELL, T. E.

Descriptive statement of the great water highways of the Dominion of Canada. Hydrology of the basin of the gulf and river St. Lawrence, with appendices relating to the commerce and navigation of Canada, by Wm. J. Paterson, secretary Montreal board of trade, etc. O. Montreal, 1874.

BOSTON

Prevention of floods in the valley of Stoney Brook. A report by a commission consisting of James B. Francis, C.E., Eliot C. Clarke, C.E., Clemens Herschel, C.E. O. Boston, 1886.

BOSTON BOARD OF TRADE

Proceedings relative to a canal from the lakes to the Mississippi, and the Caughnawaga ship canal from the St. Lawrence to lake Champlain, May 20, 1870. O. Boston, 1870.

BOSTON M'FRS' MUTUAL FIRE INSURANCE COMPANY

Strength of wooden columns. Report of certain tests on full-size wooden mill-columns, made under the direction of Prof. Gaetano Lanza. O. Boston, 1882.

BOSTON PUBLIC LIBRARY BULLETINS

Monthly, Boston, 1894—

BOSTON SOCIETY OF CIVIL ENGINEERS

Constitutions and By-laws, 1901 incomplete.

BOUSCAREN, G.

See Engineers' Club of Cincinnati.

BOVEY, HENRY TAYLOR

A lecture on the progress of science in Canada. O. Montreal, 1886.

BRITISH ASSOCIATION, MECHANICAL SECTION

Joy's reversing and expansion valve gear. Paper read before the mechanical section of the British Association, at Montreal, August, 1884.

BRITISH FIRE PREVENTION COMMITTEE, NO. 15.

Conflagrations during the last ten years. With twenty-three maps. By Charles E. Goad. O. London, 1899.

BROCKVILLE

See Chipman, Willis.

BROOKLYN ENGINEERS' CLUB

Proceedings, 1904—

BROUGH, BENNETT H.

Cantor lectures on the mining of non-metallic minerals. (Society for the Encouragement of Arts, Manufacture, and Commerce.) Q. London, 1904.

Historical Sketch of the first Institution of Mining Engineers. A paper read before the Institution of Mining Engineers. General meeting at Stoke-upon Trent. O. London and Newcastle-upon-Tyne, 1899.

BROWN, W. L.

Relative strength of heart and sap pine. O. Wilmington, 1890.

BURROUGH, EDWARD

State aid to road-building in New Jersey. Bulletin No. 9 of the Office of Road Inquiry, U. S. Dept. of Agriculture. O. Washington, 1894.

BURT, LUTHER W.

See Hering, Rudolf.

CALIFORNIA—State Commission.

Preliminary report of the state earthquake investigation commission. Q. Berkeley, 1906.

CAMBRIDGE—Water Board.

The sixteenth annual report of the Cambridge water board to the city council, together with the reports of the registrar and superintendent, and other documents, for the year 1880. O. Cambridge, 1881.

CANADA

Acte concernant la navigation dans les eaux canadiennes. O. (Ottawa, 1868.)

CANADA—Chartered Banks.

Chartered banks, 1884-1892.

CANADA—Public Accounts.

Public Accounts, 1875-1891, 1893. Missing—1879.

CANADA

Reports on weights and measures, 1875-1887.
Appendices 7 and 8 to 1st report.

CANADA—Railway Statistics, and Capital.

Railway statistics and capital, traffic and working expenditure of the railways of the Dominion, 1886-1889, 1899, 1892, 1900, 1903, 1904. O. Ottawa.

CANADA

Statistical year book, 1896.

CANADA—Canal Commission.

Letter to the Honourable the Secretary of State, from the Canal Commissioners respecting the improvement of the inland navigation of the Dominion of Canada. O. Ottawa, 1871.

CANADA—Commissioner of Public Works.

General report, 1867.

CANADA—Criminal Statistics.

See Canada Department of Agriculture.

CANADA—Department of Agriculture.

Criminal statistics. (*Statistique criminelle.*) For the years 1882-1892. O. Ottawa, 1883-1893

CANADA—Department of the Interior.

Report of the Canadian commissioner at the Exhibition of Industry, held at Sydney, N.S.W., 1877. O. Ottawa, 1878.

General report on irrigation and Canadian irrigation surveys, with maps 1894-1898. O. 4 Vols. and 4 map-envelopes. Ottawa, 1895-1900.

Report, 1875-1895. Missing—1881.

Irrigation in the Northwest Territories of Canada, 1902. O. Ottawa, 1903. With map envelope.

CANADA—Department of the Interior, Forestry Branch.

Tree planting on the prairies of Manitoba and the Northwest Territories of Canada. By Norman M. Ross. Q. Ottawa, 1904.

CANADA—Department of Inland Revenue.

Adulteration of food, 1876-1887.

Reports, 1870, 1872, 1873, 1876, 1878, 1879-1884, 1886, 1891.

CANADA—Department of Marine and Fisheries.

List of lights and fog signals of the coasts, rivers, and lakes of the Dominion of Canada, on the 31st day of May, 1886. O. Ottawa, 1886.

Supplement No. 1 du onzieme rapport annuel du Ministère de la Marine et des Pêcheries.

Liste des phares et signaux d'alarmes sur les cotes, rivières et lacs de la confédération du Canada au 31me jour de Decembre, 1878. Supplement No. 1 du onzieme rapport annuel du Ministère de la Marine et des Pêcheries. O. Ottawa, 1879.

Report of W. Bell Dawson, C. E. Survey of tides and currents in Canadian waters. O. (1894.)

Report, 1868, 1869, 1873-1875, 1877-1892.

Steam-boat inspection, etc., 1877-1892.

Survey of tides and currents in Canadian waters. Report of progress. By W. Bell Dawson, C.E., engineer in charge of tidal survey, for 1895, 1900, 1902 and 1903. O. Ottawa, 1895-1900, 1902 and 1903.

Tide tables for Halifax and Quebec for the year 1887, with tidal differences for the Atlantic coast of Nova Scotia, and for the

St. Lawrence river, from Three Rivers to Gaspé. O. Reprinted from the "Canadian Almanac." (1897.)

Tide tables for Halifax, Quebec and St. John, N.B., for the year 1900, with tidal differences for the Atlantic coast of Nova Scotia, and for the St. Lawrence river, from Three Rivers to Gaspé. Sq. O. Reprinted from Greenwood's nautical almanac and tide tables for 1900.

Tide tables for Halifax, Quebec, Father Point, and St. John, N. B., 1904, 1905.

Tide tables for Victoria, B.C., and Sand Heads, Strait of Georgia, for the year 1905. Q. Ottawa, 1904.

CANADA Department of Public Works.

Memorandum, with accompanying plans and documents relative to the past and present state of the harbour of Toronto, Province of Ontario, prepared by direction of the Hon. H. L. Langevin, C.B. O. Ottawa, 1881.

Report by the chief engineer on the "Denison Hydrograph," put up on Queen's wharf, western entrance, Toronto harbour, May, 1898. O. Ottawa, 1898.

Report of the chief engineer of public works, on the enlargement of the Welland canal. O. Ottawa, 1872.

CANADA Department of Trade and Commerce.

Report, 1893-Feb., 1903.

CANADA Minister of Agriculture.

Experimental farms, reports. Appendix to the report of the minister of agriculture, for 1888, 1890, 1891, 1892. 4 Vols. O. Ottawa, 1889-1893.

Annual report, 1861, 1866, 1870-1876, 1878-1880.

Appendix, 1881-1884, 1887, 1890-1893, 1903.

CANADA Ministre de la Justice.

Rapport sur les pénitenciers du Canada pour l'exercice qui a fini le 30 Juin, 1880. O. Ottawa, 1880.

Report as to penitentiaries in Canada, for the year ended June 30th, 1890; for the year ended June 30th, 1892; for the year ended June 30th, 1893. O. Ottawa, 1890-1893.

CANADA Minister of Public Works.

Essay on the contracted liquid vein, affecting the present theory of the science of hydraulics, by R. Steckel, assistant engineer,

Department Public Works of Canada. Read before the Royal Society of Canada. O. Ottawa, 1884.

Memorandum on the self-reducing Sanguet Tacheometer as adapted to precision levelling in connection with a new rod. By R. Steckel, M. Can. Soc. C.E. O. Ottawa, 1899.

Report, 1867-1895. Maps, 1890, 1891.

CANADA Minister of Railways and Canals

Report, 1879-1904. Missing—1895.

CANADA Parliament.

Rapport du comité special permanent de l'immigration et de la colonisation. O. Ottawa, 1881.

Report upon the Manchester ship canal. O. Ottawa, 1891.

Report of Mr. W. T. Jennings, C.E., on routes to the Yukon. O. Ottawa, 1898.

Tables of the trade and navigation of the Dominion of Canada, for the fiscal year ended 30th June, 1892. Compiled from official returns. O. Ottawa, 1893.

Liste des traites de commerce et navigation entre la Grande-Bretagne et les puissances étrangères comprenant le clause du traitement de la nation la plus favorisée, et indiquant la durée des traites et s'ils sont applicables aux colonies britanniques. O. Ottawa, 1880.

List of treaties, commerce, and navigation between Great Britain and foreign powers, containing most-favoured-nation clauses, stating the period when terminable, and showing whether they apply to the British colonies. O. Ottawa, 1880.

CANADA Senate.

Report of the special committee of the Senate upon opening up direct communication between the railway system of Canada and the navigable waters of the Yukon. O. Ottawa, 1898.

CANADA -Senate, Special Committee.

Report, etc., upon the feasibility and advantages of a waterway connecting Lake Huron with the St. Lawrence, via the Ottawa river—the Montreal, Ottawa, and Georgian Bay canal. 61 Victoria, 1898. With maps. O. Ottawa, 1898.

CANADIAN ELECTRICAL ASSOCIATION

Proceedings of the fifth annual convention, held in the city of Ottawa, 1895. F. Toronto, 1895.

CANADIAN ELECTRICAL NEWS AND ENGINEERING JOURNAL
Monthly, Toronto, 1897—

CANADIAN ENGINEER

Monthly, Toronto, 1898— (Odd numbers before 1898)

CANADIAN FORESTRY ASSOCIATION

Report of Annual Meeting, 1901, 1903.

CANADIAN INSTITUTE

Proceedings, 1889-1897. Incomplete.

CANADIAN MACHINERY

Monthly, Toronto, June, 1905—

CANADIAN MINING REVIEW

Monthly, Montreal, January, 1902—

CANADIAN PACIFIC RAILWAY

Report and documents in reference to the Canadian Pacific Railway. By Sandford Fleming, C.M.G., engineer-in-chief. O. Ottawa, 1880.

CANADIAN PACIFIC RAILWAY, ROYAL COMMISSION

Report. Volume 3. Conclusion. O. Ottawa, 1882.

CARNEGIE LIBRARY OF PITTSBURG BULLETIN

Monthly, Pittsburg, 1901—

CASSIERS' MAGAZINE

Monthly, New York and London, 1891—

CAUGHNAWAGA SHIP CANAL COMPANY DIRECTORS.

(Hon. John Young, M.P., President.)

Memorandum for contractors. O. Ottawa, 1875.

CHANNEL BRIDGE AND RAILWAY COMPANY, LIMITED

Detailed description of the project for the construction of a bridge across the English Channel, with maps and plans. Q. London, 1893.

CHANUTE, OCTAVE

Gliding experiments O. Reprint from the Journal Western Society of Engineers, 1897.

CHASE, C. P.

Brick pavement, the inauguration and execution of the work; the manufacture of brick, with tables of experiments and tests, to which is added complete working specifications and form for bids, etc. O. Indianapolis, 1891.

CHICAGO JOURNAL OF COMMERCE

Weekly, Chicago, 1896-1898.

CHIGNECTO SHIP RAILWAY

Public opinion on the Chignecto ship railway, and the Bail-Verte canal. O. 1887.

CHIPMAN, WILLIS, AND WARING, GEO. E.

Report of special committee on sewerage for the town of Brockville, Ont., with reports and proposed plan. O. Brockville, 1886.

CILLEY, FRANK H.

Some fundamental propositions relating to the design of frameworks. A study of primary stresses in indeterminate frameworks and demonstration of the economic superiority of statically determined forms. Q. Reprinted from Technology Quarterly, June, 1897.

CLARK, J. M.

The functions of a great university. Inaugural address delivered on November 16th, 1894. Published pursuant to resolution of the University College Literary and Scientific Society. O. Toronto, 1895.

CLARKE, T. C.

Report on the Montreal, Ottawa, and Georgian Bay canal, submitted to the Legislative Assembly in 1860, together with a supplementary report by Mr. Clarke on the present aspects of the undertaking, with maps and profile. O. Ottawa, 1898.

Supplementary report on the Montreal, Ottawa, and Georgian Bay navigation. O. Ottawa, 1898.

CLEVELAND, OHIO

Report on the proposed extension of water works canal, intercepting sewerage system and river flushing tunnel for Cleveland, Ohio, 1896

CLEVELAND INSTITUTE OF ENGINEERS

Proceedings, 1902— Incomplete

COLLEGIO DEGLI INGEGNERI ED ARCHITETTI

Milan, Atti, 1887-1894

COLONIAL AND INDIAN EXHIBITION

Descriptive catalogue of a collection of the economic minerals of Canada by the Geological Corps. O. London, 1886

COLORADO

Biennial report of the State Engineer to the governor of Colorado. 3 Vols. O. (1887-88, Part 2; 1889-90, Parts 1 and 2) Denver, 1889, 1891

COLORADO SCHOOL OF MINES BULLETIN

Monthly, Golden. Vol. 2. Part 2, January, 1904

COLORADO STATE AGRICULTURAL COLLEGE

Losses from canals by filtration or seepage. (The agricultural experiment station bulletin No. 48.) O. Fort Collins, 1898

The loss of water from reservoirs by seepage and evaporation. (The agricultural experiment station bulletin No. 45.) O. Fort Collins, 1898.

Seepage or return waters from irrigation. (The Agricultural Experiment Station. Bulletin 33.) O. Fort Collins, 189 .

CONNECTICUT ASSOCIATION OF CIVIL ENGINEERS AND SURVEYORS

Proceedings of meetings held August 29 and November 29, 1890, January 13, 1891. O.

CONNOR, E. H.

Fiscal wharf, Tampico, Mexico, built by the Mexican Central R'y Co., Ltd., under contract with the government. A. J. Tullock, chief engineer. Q.

CONSTRUCTION NEWS

Weekly. Chicago, 1899-1901.

CORNELL UNIVERSITY LIBRARY BULLETIN

1883-1890. Incomplete.

CORNWALL CANAL, THE

Reports, plans, and surveys, also correspondence, etc., on the subject of the recent break in the Cornwall canal. O. Ottawa, 1889.

CORPORATION OF THE LAND SURVEYORS OF THE PROVINCE OF QUEBEC

By-laws of the board of management of the Corporation of Land Surveyors of the Province of Quebec, 1890. O. Quebec, 1890.

CORTHELL, ELMER LAWRENCE

Growth and density of population in great cities. O. 1903.

The inter-oceanic problem and its scientific solution. An address before the American Association for the Advancement of Science, thirty-fourth meeting, Ann Arbor, Michigan, Aug. 26, 1885. O.

Maritime commerce, past, present, future. Read before section I of the American Association for the Advancement of Science, at its fiftieth anniversary, Boston, Mass., U.S.A., August, 1898. O. Berlin, 1898.

Remarks before the committee on rivers and harbours, at a meeting held on board S.S. Whitney, on the Mississippi river, Jan. 28, 1897, having under consideration a bill to provide for the closing of the Pass-a-Loutre crevasse and for the improvement of the S. W. Pass, etc. O. Washington, 1897.

CORTHELL, E. L., AND ROMERO, DON MATIAS

The Tehuantepec Isthmus Railway. O. Washington, 1894.

CROWELL, H. C., AND LENTH, G. C. D.

An investigation of the Doble needle regulating nozzle. O. Boston, 1903.

DALHOUSIE COLLEGE

Calendar, 1895.

DARAPSKY, DR. L.

Las aguas minerales de Chile. O. Valparaiso, 1890.

DAVIS, CHARLES HENRY

Comparative economy in electric-railway operation. O. Reprinted from the Engineering magazine New York, March, 1897.

Discussion of electricity for steam railroad suburban traffic. Correspondence communicated to the American Society of Civil Engineers, New York meeting of February 3rd, 1897.

Economic electrical future of railroads. Reprinted from Transactions, American Society of Civil Engineers, New York, December, 1899.

Electric traction under steam-railway conditions. O. Reprinted from the Engineering Magazine, New York, May and June, 1897.

The evolution of the isolated electrical plant during the last fifteen years. Reprinted from Electrical Engineer, New York, Jan. 6th, 13th, and 20th, 1897.

Location, design, and construction of an industrial establishment. Sq. Q. Reprinted from the Engineering Record, September 23, September 30, October 7, 1899.

DAVIS, CHARLES HENRY, AND FORBES, HOWARD C.

The application of alternating currents to electric traction. O. Reprinted from the Engineering Magazine, New York, 1898.

DAVIS, CHARLES H., AND GRIGGS, JOHN S., JR.

The economy of the modern engine room. II.—The problem of engine selection. O. Reprinted from the Engineering Magazine, October, 1896.

DAVIS, CHARLES HENRY, AND HOWELLS, W. G.

Third-rail electric traction. O. Reprinted from the Municipal and Railway Record. New York, 1898.

DAVIS, CHARLES HENRY, AND WILLIAMSON, F. STUART

The enormous possibilities of rapid electric travel. Reprinted from the Engineering Magazine, New York, 1887. O.

DAVIS, ROBERT FREDERICK, M. A.

Mathematical solutions, etc. Extracted from the reprint of mathematics from the Educational Times, Vol. 47, appendix 2. O. 1887.

DAWSON, GEORGE M.

The mineral wealth of British Columbia, with an annotated list

of localities of minerals of economic value. (Geological and natural history survey of Canada.) O. Montreal, 1888.

See also Selwyn, Alfred R. C., and Dawson, G. M. and Tolmie, W. Fraser, and Dawson, George M.

DAWSON, WILLIAM BELL

The eastern canal of France for establishing a line of water-communication from the Saone to the Meuse. Excerpt from the Mins. of Proc. of the Inst. of C.E. O. London, 1879.

Tide gauges in northern climates and isolated situations. O. London, 1902.

Illustrations of remarkable tidal undulations in January, 1899, as registered on recording tide gauges in the region of Nova Scotia. O. Ottawa, 1899.

Report of survey of tides and currents in Canadian waters. O. (1894.) Canada department of marine and fisheries.

Survey of tides and currents in Canadian waters. Report of progress for 1895, 1900, 1902 and 1903. O. Ottawa, 1895-1903.

DAYTON WATER WORKS

Eleventh annual report of the Dayton water works for the year ending December 31st, 1880. O. Dayton, 1881.

DENVER SOCIETY OF CIVIL ENGINEERS

Transactions. Vol. 2. July-December, 1890. O. Denver, 1891.

DIESCHER, S.

Descriptive pamphlet of improved coal crushing and washing machines. O. Pittsburg, 1880.

DIGEST OF PHYSICAL TESTS

Quarterly, Philadelphia, April, 1896—October, 1898

DIRECT U. S. CABLE COMPANY, LIMITED

Report of Sir Wm. Thomson, and Mr. F. J. Bramwell, F.R.S., etc. Report of Sir Wm. Thomson. Report of Mr. F. Jamieson. O. London (1876).

DOMESTIC ENGINEERING

Weekly, Chicago, January, 1905—

DRUMMOND, A. T.

Forest preservation in Canada. Printed in advance of the report of the annual meeting at Boston of the American Forestry Congress. O. Montreal, 1885.

DUFFERIN AND AVA, MARQUIS OF

Reprint of the "great speech" delivered at a farewell *dejeuner* in the city hall, Winnipeg, in September, 1877. O. Ottawa, 1898.

DULUTH—CHAMBER OF COMMERCE

The improvement of the Sault Ste. Marie canal. O. Duluth, 1887.

DUNDEE WATER WORKS

See Leslie, Alexander.

EDDY, HENRY T.

An address on college mathematics. O. Reprinted from the proceedings of the Am. Assoc. for the Advancement of Science. Vol. 33. Salem, 1884.

Developments in the kinetic theory of solids, liquids, and gases. Parts 3 and 4. O. Reprinted from the scientific proceedings of the Ohio Mechanics' Institute, for September, 1883.

Radiant heat an exception to the second law of thermo-dynamics. From the scientific proceedings of the Ohio Mechanics' Institute, for July, 1882. O.

EGLESTON, THOMAS

The American bloomary process of making iron direct from the ore. Read before the American Institute of Mining Engineers. 1879. Author's Ed. O. 1880.

Analysis of furnace gases, with a description of the Orsat apparatus. O. Philadelphia.

Analysis of rocks. O. Philadelphia, 1876. (From Vol. 3 of the transactions of the American Institute of Mining Engineers.)

The appointment of a U. S. Government Commission of tests of metals and constructive materials. Read before the American Society of Mechanical Engineers, 1882. Author's Ed. O. 1882.

Basic refractory materials. Read before the American Institute of Mining Engineers, 1885. O. Printed for the author, 1885.

Bessemerizing copper mattes. O. Reprinted from the School of Mines Quarterly, May, 1885.

- Comparison of notations used to represent the faces of crystals. O. New York, 1871.
- Drift mining. From the School of Mines Quarterly, 1887. O. Printed for the author.
- The Dunnachie continuous regenerative gas-kiln for burning fire-brick, pottery, etc. Read before the American Institute of Mining Engineers, 1886. O. 1886.
- The formation of gold nuggets and placer deposits. A paper read before the American Institute of Mining Engineers, 1881. Author's Ed. O. 1881.
- Going into blast with anthracite furnaces. O. Reprinted from the School of Mines Quarterly, May, 1883.
- Investigations on the Ore Knob copper process. Read before the American Institute of Mining Engineers, 1881. Author's Ed. O. 1881.
- Leaching gold and silver ores in the west. Read before the American Institute of Mining Engineers, 1883. Author's Ed. O. 1883.
- A machine for testing the physical properties of metals and alloys. O. New York, 1883. Reprinted from Vol. 5 of American Society of Mechanical Engineers.
- The manufacture of charcoal in kilns. Read before the American Institute of Mining Engineers, 1879. O. Printed for the author, 1880.
- The Mendheim continuous gas-furnace for fire-brick and porcelain. O. From School of Mines Quarterly, October, 1886. Printed for the author.
- The method of collecting flue-dust at Ems on the Lahn. Read before the American Institute of Mining Engineers. Author's Ed. O. 1883.
- The Patio and Cazo processes for amalgamating silver ores. From the annals of the New York Academy of Sciences, Vol. 3., No. 1 and 2. O. New York, 1884.
- The presence of tellurium in copper. A paper read before the American Institute of Mining Engineers, at the Harrisburg meeting, October, 1882. Author's Ed. O. 1882.
- Technical education. A speech made at the joint discussion between the Mining and Civil Engineers at Philadelphia, 1876. O. Philadelphia, 1876.
- Treatment of enargite. Reprinted from the School of Mines Quarterly, November, 1882. O. New York, 1882.
- Treatment of gold in the Arrastra. From the School of Mines Quarterly. Vol. 8, No. 2, January, 1887.

Treatment of roasted pyrites by the Longmaid and Claudet processes for the extraction of gold and silver. Read before the American Institute of Mining Engineers, 1885. O. Printed for the author, 1885.

Zinc desilverization. From the annals of the New York Academy of Sciences. Vol. 2, No. 3. O. New York, 1880.

ELECTRIC POWER

Monthly, New York, 1889-1891.

ELECTRICAL AGE

Weekly, New York, 1896-1899.

ELECTRICAL ENGINEER AND ELECTRIC LIGHT

Weekly, London, 1890, 1891, 1896—

ELECTRICAL ENGINEERING AND TELEPHONE MAGAZINE

Monthly, Chicago, 1893-1898.

ELECTRICAL REVIEW

Weekly, London, 1896—

ELECTRICAL REVIEW

Weekly, New York, 1898—

ELECTRICAL WORLD

Weekly, New York, 1887, 1888, 1892, 1893.

ELECTRICAL WORLD AND ENGINEER

Weekly, New York, 1901—

ELLACOTT, JOHN

Description of the low water basin at Birkenhead, with an abstract of the discussion upon the paper. O. Excerpt from the Minutes of Proceedings of the Institution of Civil Engineers. London, 1870.

ENGINEER

Semi-weekly, Chicago, 1903—

ENGINEER

Weekly, London, 1890-1893.

ENGINEERING ASSOCIATION OF THE SOUTH

Proceedings, Nashville, 1893-1899. Incomplete, 1900—

ENGINEERING JOURNAL OF CANADA

Monthly, Toronto, September, 1905—

ENGINEERING MAGAZINE

Monthly, New York, 1891—

ENGINEERING MECHANICS

Monthly, Philadelphia, 1899 incomplete and 1900 complete.

ENGINEERING NEWS

Weekly, New York, October, 1890—November, 1891.

ENGINEERING REVIEW

Monthly, London, January, 1904—

ENGINEERING SOCIETY OF THE SCHOOL OF PRACTICAL SCIENCE

Toronto, Transactions, 1877—

ENGINEERING TIMES

Weekly, London, 1900—

ENGINEERING TIMES

Wolverhampton exhibition, 1902. An engineering record. Q. London, 1902.

Glasgow international exhibition, 1901. An engineering record. Q. London (1901).

ENGINEERS' ASSOCIATION OF VIRGINIA

See Roanoke.

ENGINEERS' CLUB OF CINCINNATI

Address of G. Buscaren, C.E., president of the Engineers' Club of Cincinnati, at the annual meeting of the club, December 19, 1889. O.

ENGINEERS' CLUB OF PHILADELPHIA

Proceedings, 1882-1884. Incomplete. April, 1902—

ENGINEERS' GAZETTE

Monthly, London, 1895-1903.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA

Pittsburg, Proceedings, 1890—

FERNOW, B. E.

See Tratman, E. E. Russel.

and U.S. Department of Agriculture Forestry Division.

FIELDEN'S MAGAZINE

Monthly, London, July, 1890—December, 1903.

FLEMING, SANDFORD

Report and documents in reference to the Canadian Pacific Railway. O. Ottawa, 1880.

Time-reckoning for the twentieth century. For the Smithsonian report for 1886. O. Washington, 1889.

FLYNN, P. J.

Flow of water in open channels, with tables on Kutter's formula. O. Published by the Technical Society of the Pacific Coast, 1890.

FORBES, HOWARD C.

See Davis, Charles Henry.

FRANCIS, JAMES B.

On the cause of the maximum velocity of water flowing in open channels being below the surface. O. 1878. American Society of Civil Engineers.

Report of a Swain turbine water wheel. O. Reprinted from the Journal of the Franklin Institute, April, 1875.

FRANKLIN INSTITUTE

The smoke nuisance and its regulation, with special reference to the condition prevailing in Philadelphia. Discussion at the stated meeting of the Franklin Institute, held May-June, 1897. Reprinted from the Journal of the Franklin Institute, June-July, 1897. O. Philadelphia, 1897.

JOHN FRITZ MEDAL

The John Fritz medal. O. (New York, 1903.)

GALBRAITH, JOHN

The function of the school of applied science in the education of the engineer. Reprinted from the University of Toronto Monthly, Vol. 1, No. 5. O. Toronto, 1901.

GENERAL ELECTRIC COMPANY, LIMITED

Comparative tests of E. C. C. dry battery cells and the best known continental cell. Extracts from a paper read before the Philosophical Society, Glasgow, on March 22, 1893, by Professor Jamieson, M.I.C.E., F.R.S.E., etc. Sq. Q. London.

GEOGRAPHICAL SOCIETY OF QUEBEC

See Societe de Geographie de Quebec.

GEOLOGICAL SURVEY OF CANADA

Annual and special reports, with special index volumes.

GEOLOGICAL SURVEY OF U. S.

See U. S. Geological Survey.

GEOLOGICAL SURVEY OF WESTERN AUSTRALIA

Bulletin, 1903—

GILLMORE, Q. A.

See U. S. Army Engineering Department.

GOAD, CHARLES E.

Conflagrations during the last ten years, with twenty-three maps. O. London, 1899.

GOSLIN, SAMUEL B.

The relative advantages of wind, water, and steam as motive powers, compared with each other, and a description of the motors the most suited for utilizing them. O. 2nd Ed. London, 1881.

GRAND TRUNK RAILWAY COMPANY OF CANADA

Report of Mr. Thomas E. Blackwell, vice-president and managing director of the G. T. Ry. Co. of Canada for the year 1859. Q. London, 1860.

GRAY, SAMUEL M., AND OTHERS

See Hering, Rudolf.

GREAT BRITAIN PATENTS FOR INVENTIONS

Abridgments of specifications, 1895—

GUARINI, EMILE

La telegraphie sans fils l'oeuvre de Marconi. Traduit du scientifique American de New York. Q. Brussels.

GZOWSKI, C. S., AND SHANLY, W.

Report on the accommodation for railways on the water-front of the city of Toronto, and on the location of the Canadian Pacific Railway freight yards. O. Toronto (1889).

HALIFAX—City Engineer.

Annual report, 1895, 1897, 1899, 1902.

HALIFAX—Dry Dock Committee.

Report on the wooden graving dock at St. John's, Nfld, by E. H. Keating, C.E. O. (Halifax, 1884).

HALIFAX—Mayor and City Council.

Dry docks. Reports on proposed dry dock for the port of Halifax, N. S., containing descriptions of several stone, wooden, and iron docks. O. Halifax, 1883.

HALL, W. SILVER

A review of the Japanese patent law, including regulations relating to trade marks and designs. S. London, 1898.

HARTFORD

See Hering, Rudolf.

HAWKSHAW, JOHN

Account of the cofferdam, the syphons, and other works, constructed in consequence of the failure of the St. Germain's sluice of the middle level drainage. Excerpt from the Mins. of Proc. of the Inst. of C.E. O. London, 1863.

HERING, RUDOLPH

Annual report of the board of public works of the city of Superior, Wis., for the year ending Feb. 1, 1893, containing report by Rudolf Hering, M. Can. Soc. C.E., on a system of sewerage. O. Superior, 1893.

- Barterial processes of sewage purification. O. Reprinted from the Engineering Magazine, New York, August, 1898.
- Dilution process of sewage disposal. O. Reprinted from the Engineering Magazine, July, 1898.
- Disposal of sewage. Written for the State Board of Health of California. O. (1890.)
- Notes on the pollution of streams. O. Concord, 1888. Reprinted from Vol. 13 of the American Public Health Association.
- Report to accompany plans for the sewerage and drainage of Honolulu, H. I. O. New York, 1897.
- Report on an additional water supply for Waterbury, Conn. New York, May, 1892. O. Waterbury, 1893.
- Report of the committee on the disposal of garbage and refuse. O. Concord, 1897.
- Report on European sewerage systems, with special reference to the needs of the city of Philadelphia, Pa. O. 1881.
- Report on the filtration of the Nuuanu water supply of Honolulu, H. I. O. New York, 1897.
- Report on a future water supply for the city of Winnipeg, Manitoba. O. New York, 1897.
- Reports of joint committee, Luther W. Burt, city surveyor, and Rudolf Hering, civil engineer, concerning Park River sewage, and the general sewerage system of the city. July 10, 1893. O. Hartford, 1893.
- Report on a proposed system of sewerage for St. John's Newfoundland, accompanied by report on the same by Chas. J. Harvey, town engineer, including plumbing and house drainage regulations, to be adopted. O. St. John's, 1889.
- Sewerage systems. O. Reprinted from the Annual report of the Woman's Protective Associations of the United States, 1897.
- Report upon a sewerage system for the city of Sioux Falls, S.D. O. Sioux Falls, 1893.
- Reports of Mr. Rudolf Hering on the sewerage and water supply for Atlanta, Georgia. O. Atlanta, 1891.
- Report concerning sewerage system of the city of Hartford, made to the court of common council, April 17, 1893. O. Hartford, 1893.
- Report on plans for sewerage and draining the city of Ithaca, N.Y., made to the Board of Sewer Commissioners, August 30, 1894. O. Ithaca, 1894.
- Report on sewerage of Indianapolis. See Indianapolis Department of Public Works.

Report upon a system of sewerage for the city of Ironton, Ohio. O. (1891.)

Report on a system of sewerage for the city of Wilmington, Delaware. New York, February, 1883. O. Wilmington, 1883.

Report on the water supply of the city of Tacoma, to the mayor and chairman of the water committee. O. Tacoma, 1892.

Water purification. Reprinted from the Journal of the Franklin Institute, February and March, 1895. O. Philadelphia, 1895.

See Cleveland, Ohio.

See Newark, N.J.

See Taunton, city of.

HERING, RUDOLPH, AND ADAMS, JULIUS W.

Report on the improved sewerage system (for Newark). O. (1884.)

HERING, RUDOLPH, AND OTHERS

Report upon the sewerage of the district of Columbia. O. Washington, 1890.

HERSCHEL, CLEMENS

Frontinus and his II books on the water supply of the city of Rome, A.D. 97. A lecture delivered before the engineering students of Cornell university, February 2, 1894. O. Ithaca, 1894.

HILGARD, PETER, EUGENE W., AND HOPKINS, DR. F. V.

Reports upon the specimens obtained from borings made in 1874 between the Mississippi river and Lake Borgne, at the site proposed for an outlet for flood waters. Supplement to the report of the commission of engineers of January 16, 1875. Engineer Department U. S. Army. O. Washington, 1878.

HILL, WALTER R.

How the water supply of the city of Syracuse, N.Y., has been kept free from an unpleasant taste. Read before the American Water Works Association, at Columbus, O., May 16, 1899. O.

HOADLEY, J. C.

Steam-engine practice in the U.S. in 1884. A paper read before the British Association for the Advancement of Science, 1884. O. Boston, 1884.

HOFFMANN, G. CHRISTIAN

Catalogue of Section One of the Museum of the Geological Survey, embracing the systematic collection of minerals and the collections of economic minerals and rocks and specimens illustrative of structural geology. Q. Ottawa, 1893. Geological survey of Canada

HOLDEN, EDWARD S.

List of recorded earthquakes in California, Lower California, Oregon, and Washington territory. O. Sacramento, 1887.

HOPKINS, DR. F. V.

See Hilgard, Prof. E. W., and Hopkins, Dr. F. V.

HOWARD, J. W.

Advantages of good pavements and attractive streets. O. Reprint from the Engineering Magazine

HOWELLS, W. G.

See Davis, Charles Henry.

HUGHES, J. W.

Removal of sewage and the drainage of dwellings, with practical hints on the proper situation and care of domestic plumbing apparatus. O. 3rd Ed. Montreal, 1886.

INDIAN ENGINEERING

Weekly, Calcutta, 1888--

**INDIANA SOCIETY OF CIVIL ENGINEERS AND SURVEYORS
OF THE STATE OF INDIANA**

Proceedings.....at its eighth annual meeting.....constitution, by-laws, and other matter. O. Indianapolis, 1888.

INDIANAPOLIS, Department of Public Works.

Second annual report to the mayor. Containing report on sewerage by Rudolf Hering, for the year ending December 31, 1892. O. Indianapolis, 1893.

INDUSTRY AND IRON

Weekly, London, 1896-1899.

DE INGENIEUR

Weekly, The Hague, 1900—

INGENIORS FORENINGENS

Stockholm, 1887-1899.

INSTITUTION OF CIVIL ENGINEERS

Report of the committee appointed on the 31st March, 1896, to consider and report to the council upon the subject of the definition of a standard or standards of thermal efficiency for steam engines, with an introductory note. O. London, 1898.

INSTITUTION OF MECHANICAL ENGINEERS

List of Members, etc., 1900—

Proceedings, 1893, 1899.

INTERNATIONAL DEEP WATERWAYS COMMISSION

Deeper waterways from the Great Lakes to the Atlantic. Reports of the Canadian members of the International commission. O. Ottawa, 1897.

INTERNATIONAL MARITIME CONGRESS, LONDON, 1893.

Minutes of proceedings, and general report. 5 Vols. Q. London, 1893.

IRON AGE

Weekly, New York, 1901—

IRON AGE

Directory, 1902, 1904.

IRON AND MACHINERY WORLD

Weekly, Chicago, 1903—

IRON AND STEEL

Weekly, Chicago, 1898, June, 1902.

IRONMONGER

Weekly, London, 1890, 1892-1899.

IRON ORE

On the iron ore deposits in Sydvaranger, Finmarken, Norway, and relative geological problems. Christiania, 1905.

LEUTNER

See Hering, Rudolf.

ITHACA

See Hering, Rudolf.

JAMIESON, PROFESSOR

Comparative tests of E. C. C. dry battery cells and the best known continental battery cell. See General Electric Company, Ltd.

JAPAN MAIL

American and English methods of bridge designing. O. Reprinted from the Japan Mail. (Tokio, 1886.)

JENKINS, HENRY C.

The equipment of laboratories for advanced teaching and research in the mineral industries. O. London, 1904.

JENNINGS, W. T.

Report of Mr. W. T. Jennings, C.E., on routes to the Yukon. Printed by order of Parliament. O. Ottawa, 1898.

JOHN CRERAR LIBRARY PUBLICATIONS

Chicago, 1901-1904.

JOHNS HOPKINS UNIVERSITY

Fourteenth annual report of the president of the Johns Hopkins university, Baltimore, Maryland. O. Baltimore, 1889.

Register, 1886-1887, and 1889-1890. 2 Vols. O. Baltimore, 1887, 1890.

JOHNSON, GEORGE

Johnson's graphic statistics of Canada. O. (Ottawa, 1887.)

JUDSON, WM. PIERSON

From the west to the northwest to the sea by way of the Niagara ship canal. O. New York, 1890.

JUNIOR ENGINEERING SOCIETY

Address delivered by the president, Alex. B. W. Kennedy, M.I. C.E., on "Steam Engine Economy," introductory to the meetings of the fifth session, September 24, 1886. O. London (1886).

KEATING, E. H.

See Halifax Dry Dock Commission.

KEEFER, THOMAS C.

The canals of Canada. Read before the Royal Society of Canada, 1893. Sq. Q. Montreal, 1894.

KENNEDY, ALEXANDER B. W.

Science lectures at South Kensington. Kinematic models. D. London, 1876.

KENNEDY, JOHN

See Montreal Harbour Commissioners.

KNUDSEN, AUGUSTUS, C. E.

Triangular surveys from single stations. T. San Francisco, 1893.

KONINKLIJK INSTITUUT VAN INGENIEURS

Tijdschrift, The Hague, 1899, 1905—

LACHINE RAPIDS HYDRAULIC AND LAND COMPANY, LTD.

Annual report for the year 1899. O. Montreal, 1900.

LAMB, RICHARD

Comparative value of heart and sap pine. O. Wilmington, 1890.

LANZA, GAETANO

An account of certain tests of the transverse strength and stiffness of large spruce beams. An address delivered before the American Society of Mechanical Engineers, on November 3, 1882. O. Reprinted from the Journal of the Franklin Institute, February, 1883.

Transverse strength of large spruce beams. From tests made at the Massachusetts Institute of Technology. An address delivered before the Society of Arts of the Massachusetts Institute of Technology. O. Boston, 1882.

LAROQUE, A. B.

Report on the sanitary state of the city of Montreal for the year 1882. O. Montreal, 1883.

LEHIGH UNIVERSITY

Catalogue of the articles in the exhibit of the Lehigh University, at the World's Columbian Exposition, 1893. Reprinted from the Lehigh Quarterly. O. South Bethlehem, 1893.

Citizenship and technical education. An address delivered.... 1896, by John H. Converse, A.B., of Philadelphia. O. South Bethlehem, 1896.

Origins and destiny. An address delivered on Founder's Day, by Langdon C. Stewardson, chaplain of the university. O. South Bethlehem, 1898.

Register, 1897-1898, and 1898-1899. S. 2 Vols. (1)—Lancaster, 1898. (2)—South Bethlehem, 1899.

LENTH, G. C. D.

See Crowell, H.C.

LESLIE, ALEXANDER

Account of experiments of the flow of water over triangular weirs. From the Transactions of the Royal Scottish Society of Arts, Vol. 9, 1872-73. O. Edinburgh, 1874.

Account of the water works of Dundee. O. Edinburgh, 1879.
Description of an improved joint for a levelling staff. O. (London, 1877.)

LIVERPOOL DOCK ENGINEER

The dock engineer's report on the general state and progress of the dock works at Liverpool and Birkenhead, and of the expenditure in his department, 1874 and 1878. Q. Liverpool, 1874 and 1878.

LOGAN, W. E.

See St. Peter, Survey of Lake.

LOVELACE, E. S. M.

The Grand Trunk Railway transition curve. D. Montreal, 1893

LUIGGI, M. LUIS

Le grand bassin de carenage du port militaire de Bahia Blanca. Q. Buenos Ayres, 1902.

LUTHY, ROBERT

On valves suitable for working hydraulic machinery. O. Reprinted from the Journal of the Iron and Steel Institute. No. 2, for 1874. Newcastle-upon-Tyne, 1874.

MACFIE, ROBERT ANDREW

The patent question. A solution of the difficulties by abolishing or shortening the inventor's monopoly, and instituting national recompenses, etc. O. London, 1861.

McCULLOUGH, ERNEST

Municipal public works. An elementary manual of municipal engineering. O. Lewiston, 1900.

McGILL UNIVERSITY

Calendar, 1901—

MACHINERY

Monthly, New York, 1900—

McKENZIE, WILLIAM B.

Creosoting timber. Reprinted from the Canadian Engineer. D.

McKINNEY, C. S.

The ideal wood preserver; is it possible and obtainable? A paper read April 8th, 1897, before the Engineering Association of the South. O. Nashville, 1897.

A MAGYAR MERNOK-ES EPITESZ-EGYLET

Weekly, Buda-Pesth, 1894—

MANCHESTER ASSOCIATION OF ENGINEERS

Accuracy in mechanical construction. Inaugural address by the president, Mr. Samuel Dixon, M.I.M.E., 12th January, 1889, at the Grand Hotel, Manchester. O. Manchester, 1889.

MARINE REVIEW

Weekly, Cleveland, 1899—

MASTER CAR-BUILDERS' ASSOCIATION

Report of the proceedings of the seventeenth annual convention, held in Chicago, Ill., 1883. O. New York, 1883.

Report of the proceedings of the twenty-second annual convention of the.... held at Alexandria Bay, N.Y., 1888. O. New York, 1888.

MATTES, W. F.

Confidential report on the head of Lake Superior as a location for the manufacture of steel rails, with supplement. Q. New York, 1890.

MATTHEWS, FREDERICK B.

Hydraulic power on the Lachine Rapids. O.

MAVOR, JAMES

Report on workmen's compensation for injuries. Printed by order of the Legislative Assembly of Ontario. O. Toronto, 1900.

MEAD, ELWOOD

The relation of irrigation to dry farming. O. 1905.

MECHANICAL ENGINEER

Weekly, London, 1898—

MERRITTON

See Munro, Thomas.

MERSEY DOCKS AND HARBOUR BOARD

Report of the debate at the meeting of the Mersey docks and harbour board, on June 27, 1872, on the report of the special committee appointed on January 11, 1872, "to consider and report as to the capabilities of the Mersey dock estate in trust." O. Liverpool, 1872.

Reports of George Fosbery Lyster, Esq., engineer of the Mersey docks and harbour board, to the special committee appointed on January 11, 1872, "to consider and report as to the capabilities of the Mersey dock estate in....trust." O. Liverpool, 1872.

MEXICO—Secretaria de Comunicaciones y Obras Públicas.

Anales, 1902—

MIDLAND INSTITUTE

Proceedings. Leeds, 1890-1904.

MINES AND MINERALS

Weekly, Scranton, 1903—

MINING JOURNAL, RAILWAY AND COMMERCIAL GAZETTE
Weekly, London, January, 1891—June, 1898

MINING MAGAZINE
Monthly, New York, July, 1904—

MINING REPORTER
Weekly, Denver, January, 1904—

MINING SOCIETY OF NOVA SCOTIA
Halifax, Vol. 5 (1899-1900), and Vol. 8 (1904).

MINING SOCIETY OF NOVA SCOTIA
Halifax, 1892-1903. Incomplete.

MODERN MACHINERY
Monthly, Chicago, 1897-1899.

MONTREAL Board of Health.
See LaRoque, A.B.

MONTREAL—Board of Trade.
Forty-eighth annual report of the Montreal board of trade, being for the year ended 31st December, 1890. O. Montreal, 1891.
The home and foreign trade of Canada, also annual report of the commerce of Montreal, for 1876. By Wm. J. Patterson. O. Montreal, 1877.

MONTREAL—City Surveyor.
Report, 1884, 1886, 1889, 1892, 1893, 1896, 1899.

MONTREAL Flood Commission.
Report of the Montreal Flood Commission with interim reports, tables, etc. O. (1886).

MONTREAL Harbour Commissioners.
A city terminus for the Grand Trunk Railway Co., considered in a report by Walter Shanly, Esq., C. E. O. Montreal, 1859.
Documents relating to the deepening of the ship canal through Lake Peter, etc. O. Montreal, 1853.
Opinions of the late chief justice, the Honorable Sir L. H. Lafontaine, Bart., the late Honorable F. A. Quesnel, Q.C., and

the late Honorable Alexander Buchanan, Q. C., regarding the rights of the public to the beach of the river round the Island of Montreal, etc. O. Montreal, 1871.

Report, etc., 1855—Incomplete.

Report on the St. Lawrence Bridge and Manufacturing Scheme, by John Kennedy, M. Inst. C. E. F. Montreal, 1882.

MONTREAL, OTTAWA AND GEORGIAN BAY CANAL

Correspondence, etc. O. Ottawa (1897)?

The physical features and geology of the proposed Ottawa Canal between the St. Lawrence river and Lake Huron. O. Ottawa, 1896. Reprinted from the transactions of the Royal Society of Canada, 1895--96.

Report by Marcus Smith, October 1st, 1895. O. Ottawa, 1895.

Report of Marcus Smith, regarding the channel. D. (1895)?

Report, etc., of the special committee of the Senate of Canada upon the feasibility and advantages of a waterway connecting Lake Huron with the St. Lawrence via the Ottawa river, 3rd session, 8th Parliament, 61 Victoria, 1898. Q. Ottawa, 1898.

Speeches in the House of Commons, May, 31, 1898, and in the Senate, June 7, 1898. O. Ottawa, 1898.

MONTREAL, OTTAWA AND GEORGIAN BAY NAVIGATION

Report of T. C. Clarke, Esq., C. E., submitted to the Legislative Assembly, in 1860, together with a supplementary report on the present aspects of the undertaking. With maps and profile. O. Ottawa, 1898.

Supplementary report by T. C. Clarke, Esq., M. Inst. C. E., consulting engineer. O. Ottawa, 1898.

MONTREAL AND QUEBEC—Boards of Trade.

Telegraphy with the coasts and islands of the gulf and lower river St. Lawrence, and the coasts of the Maritime Provinces. Its relation to the shipping, to the fisheries, and to the signal service. O. Quebec, 1879.

MONRO, THOMAS—Government Engineer.

Report upon the Manchester Ship Canal. O. Ottawa, 1891.

MOTOR CAR JOURNAL

Weekly, London, May, 1905—

MUNICIPAL ENGINEERING

Monthly, Indianapolis, January, 1902—

MUNICIPAL AND RAILWAY RECORD

Monthly, New York, 1899—

NATIONAL CAR AND LOCOMOTIVE BUILDER

Monthly, New York, 1891-1903. (1894, 1895 complete.)

MUNRO, THOMAS

Report on the water supply of the village of Merritton. O. St. Catharines, 1886.

NATIONAL ASSOCIATION OF BUILDERS OF THE U. S.

Official report of the annual convention. 1888 and 1889. 2 vols. O. Boston, 1888 and 1889.

NAGLE, A. F.

An analysis of the "commercial" value of water power per horse-power per annum. O. New York, 1903.

NIEDERLEIN, GUSTAVO

See Philadelphia Museums.

N. B. GOOD ROADS ASSOCIATION

Good roads, a report of the good roads convention for the Prov. of N. B., held at St. John, N. B., September 21 and 22, 1897; also Fredericton, N. B., February 17th and 18th, 1898, and a treatise on road drainage. O. (Fredericton, 1898.)

NEW ENGLAND ROADMASTERS' ASSOCIATION

Proceedings, 1898. O. Ware, 1899.

NEW ENGLAND WATER WORKS ASSOCIATION

Journal. Vol. 1, No. 4. June, 1887. O. West Newton, 1887.

NEW ORLEANS—Advisory Board.

Report of the drainage of the city of the New Orleans, by the advisory board appointed by ordinance No. 8327. Adopted by the city council, November 24, 1893. O. New Orleans, 1895

NEW YORK—Board of Rapid Transit Railroad Commissioners in and for the City of New York.

Report of the board to the Common Council of the city of New York, together with the documents, maps and plans attached thereto. October 20, 1891. O. New York.

NEW YORK City.

Engineers' Law for Greater New York. D. New York, 1897.

NEW YORK—Legislative Assembly.

Report of the committee on canals of New York state, 1899. O. Albany, 1900.

Report to the governor of the advisory board of consulting engineers upon the work relating to the Barge Canal from March 8, 1904, to January 1, 1906. O. Albany, 1906.

NEW YORK—State Engineer and Surveyor.

High masonry dams in Europe. Report by Geo. W. Rafter to Campbell W. Adams, state engineer and surveyor. O. Albany and New York, 1897.

NEW YORK—State Weather Bureau.

Bulletins, 1891, 1893-1897.

NEW YORK STATE MUSEUM

Bulletin, 1893--1901. Missing. Nos. 35, 40, 44.

NEWLANDS, FRANCIS G.

The White House restoration. Compensation of architects. O. Washington, 1904.

NEWARK, N. J.

Annual report of the board of street and water commissioners ...; for the year ended December 31, 1895. Containing report by Rudolf Hering, M. Can. Soc. C. E., on the sewerage and drainage of a portion of the city of Newark, N. J., including the meadow drainage, 1895. O. Newark, 1896.

NORSK TECHNISK TIDSSKRIFT

Christiania, 1888-1897. Missing—1890.

NOVA SCOTIA

Law relating to mines and minerals in Nova Scotia. O. Halifax, 1892.

NOVA SCOTIA—Provincial Engineer.

Souvenir programme of the meetings and excursions to be held during the visit of the American Institute of Mining Engineers to Canada in August, 1900, conducted under the auspices of the Canadian Mining Institute, and the Mining Society of Nova Scotia, together with some notes on the prominent mineral resources and mining industries of Nova Scotia. Illustrated. O.

Report on the subsidized railways and other public works in the Province of Nova Scotia. For 1886, 1887, 1888, 1890, 1891, 1894. O. Halifax, 1887, 1888, 1889, 1891, 1892 and 1895.

NOVA SCOTIAN INSTITUTE OF SCIENCE

Transactions, Halifax, 1865-1869, 1876, 1877, 1894-1902.

OESTERREICHE INGENIEUR UND ARCHITEKTEN VEREIN

Wochenschrift, Vienna, 1887-1891.

Zeitschrift, Vienna, 1887—

OGDEN BENCH CANAL AND WATER COMPANY

Report of the consulting engineer. O. Ogden, 1893.

OMAHA, CITY OF

Annual report of the city engineer of the city of Omaha, December 31, 1894. Omaha, 1895.

ONTARIO—Bureau of Mines.

Reports, 1894.

ONTARIO—Department of Agriculture.

Report of the provincial instructor in road-making, 1896.

Third annual report of the provincial instructor in road-making, 1898. O. Ottawa, 1897 and 1899.

ONTARIO—Legislative Assembly.

Report on workmen compensation for injuries, by James Mavor. O. Toronto, 1891.

Special report of the provincial instructor on public highways. O. Toronto, 1900.

Bill. An act respecting land surveyors and the survey of lands. O. Toronto, 1887.

Report of the Royal Commission on Forestry Protection in Ontario. O. Toronto, 1900.

ONTARIO—Provincial Instructor in Road-Making.

Report, 1896; third annual report, 1898; special report, 1899. O. Toronto, 1897, 1899, 1900.

ONTARIO ASSOCIATION OF PROVINCIAL LAND SURVEYORS

Proceedings, at its sixth meeting, held at Toronto on March 10th, 11th, and 12th, 1891. O. Toronto, 1891.

OTTAWA—Water Works Committee.

Annual report of the water works committee for the year ending 31st October, 1886. With official reports. O. Ottawa, 1886.

OTTAWA RIVER

Report of the select committee of the senate appointed to enquire into and report upon the extent and effect upon the Ottawa river of the deposit therein of sawdust and other refuse, the expediency or necessity of preventing such deposit, and the measures requisite for that purpose, etc. O. Ottawa, 1883.

PACIFIC RAILROADS

Their operation as one continuous line. Argument in behalf of the Kansas Pacific Railway, before the house committee on the Pacific Railroad, by J. M. Woolworth of counsel. O. Washington, 1878.

PAGE'S MAGAZINE

Weekly (Page's Weekly), London, October, 1902—

PATTERSON, WM., J.

Statements relating to the home and foreign trade of the Dominion of Canada, also annual report of the commerce of Montreal, for 1876. O. Montreal, 1877.

PAWTUCKET—Water Commissioners.

First annual report of the water commissioners and superintendent of water works, of the town of Pawtucket, R. I., February 1, 1881. O. Pawtucket, 1881.

PEABODY, ROBERT S.

Address of Robert S. Peabody, president, A. I. A., delivered at the 35th annual convention of the American Institute of Architects in Buffalo, New York, October 3, 1901. Q. Washington, 1902.

PHILADELPHIA MUSEUMS

The republic of Guatemala. By Gustavo Niederlein, chief of the scientific department of the Philadelphia museums. O. Philadelphia, 1898.

The state of Nicaragua of the Greater Republic of Central America. By Gustavo Niederlein, chief of the scientific department. O. Philadelphia, 1898.

PHYSICAL REVIEW

January, 1895—December, 1896.

POCKET LIST OF RAILROAD OFFICIALS

Pocket List of Railroad Officials, 1893, 1899, 1901—Incomplete.

POOLE, HENRY S.

Temperature at the Albion mines. Sq. Q. Picton, 1860.

POTTER, ALEXANDER

Report on the design and apportionment of cost of joint tide-water sewer for the municipalities of Newark, South Orange, Vailsburg, Irvington, and the townships of West Orange, Milburn, and South Orange, New Jersey. O. New York, 1898.

PRACTICAL ENGINEER AND ENGINEERS' GAZETTE

Weekly, London, 1897—

PROVIDENCE

Report of the commission of the American Society of Civil Engineers, upon the sewerage plan of Samuel M. Gray, city engineer. Presented December 27, 1886. O. Providence, 1886.

PROVIDENCE—City Engineer.

Annual report, 1892—

PROVINCE OF QUEBEC ASSOCIATION OF ARCHITECTS

Constitution, by-laws, and act of the Province of Quebec Association of Architects. O. Toronto, 1892.

PURDUE SOCIETY OF CIVIL ENGINEERING

Proceedings, 1897, No. 2. O. Lafayette (1897).

QUEBEC

Report of the city engineer for the years 1892-93—1893-94. O. Quebec, 1893, 1894.

Rapport de l'ingenieur de la cite pour les annees 1892-93—1893-94. O. Quebec, 1894.

Municipal engineering statistics. Areas, lengths of streets.... etc. O. Quebec, 1896.

Report on a railway bridge over the river St. Lawrence, near Quebec, made for the city council by order of N. F. Belleau, Esq., mayor of Quebec, by William Serrell, city engineer O. Quebec, 1852.

See Ballialge, C.

QUEBEC—Harbour Commissioners.

The harbour works. Conference between the harbour commissioners, city council, and board of trade, relative to the proposed improvements in the harbour of Quebec. O. (1887.)

Observations on certain plans for the improvement of the Quebec harbour, which have been submitted to the harbour commissioners of this city. Q. (Quebec, 1875.)?

Quebec harbour commissioners' reports. O. Quebec, 1884, 1889, 1896.

QUEBEC—Legislative Assembly.

Act respecting land surveyors and the survey of lands. Revised statutes....title 10, chapter 5. O. Quebec, 1889.

Blue books, etc., 1901-1904. Incomplete.

Report of the commissioner of crown lands of the Province of Quebec, for the twelve months ending 30th June, 1893, 1895, 1898. 3 Vols. O. Quebec, 1893, 1895, 1898.

QUEBEC—Public Works.

General report of the commissioner of public works, 1896. Printed by order of the legislature. O. Quebec, 1896.

QUEBEC—Water Works.

See Beaudry, J.A.U.

RAFTER, GEORGE W.

High masonry dams in Europe. O. New York and Albany, 1897.

RAILWAY AGE

Weekly, Chicago, 1896—

RAILROAD AND ENGINEERING JOURNAL

Monthly, New York, 1890.

RAILWAY AND ENGINEERING REVIEW

Weekly, Chicago, 1897—

RAILWAY AND LOCOMOTIVE ENGINEERING

Monthly, New York, November, 1896—

RAILWAY AND SHIPPING WORLD

Monthly, Toronto, 1899—

RAILROAD AND ENGINEERING JOURNAL

1890.

RAILROAD GAZETTE

Weekly, New York, 1886—

REID, R. C.

Utilisation of water power. O. Reprinted from the Proc. of the Edin. and Leith Society of Engineers.

REVISTA TECHNOLOGICO INDUSTRIAL DE BARCELONA

Monthly, Barcelona, 1890— Missing—1891 and 1893.

REVUE TECHNIQUE

Bi-weekly, Paris, 1897-1906.

ROANOKE

An ordinance to provide regulations governing the erection of buildings in this city. Compiled by the Engineers' Association of Virginia. Approved June 23, 1894. O. Roanoke, 1894.

ROBERTSON, GEORGE

On the concrete used in the late extension of the London docks. Read before the Society of Arts, 10th December, 1860. O.

ROCHUSSEN, T. A.

Tables referring to T. A. Rochussen's paper on wear, cost, and performance of rolling stock. (Private proof.)

ROMERO, DON MATIAS

See Corthell, E. L.

RODDA, J. T.

Notes on water supply, containing references, tables, notes, and detailed advertisements. Q. London, 1898.

ROSS, NORMAN M.

Tree planting on the prairies of Manitoba and the Northwest Territories of Canada. Q. Ottawa, 1904.

ROYAL ARTILLERY INSTITUTION

Woolwich, Proceedings, with reports, précis, translations, etc., 1900—

ROYAL COMMISSION ON RAILWAYS

Report, with appendices. O. Ottawa, 1888.

ROYAL DUBLIN SOCIETY

Proceedings, Dublin, 1887-1903. Incomplete (1888 and 1891 complete).

ROYAL DUBLIN SOCIETY

Scientific Transactions, Dublin, 1887—

ROYAL INSTITUTE OF BRITISH ARCHITECTS

Journal, London, 1887— Missing—1889.

ROYAL INSTITUTE OF BRITISH ARCHITECTS

Kalendar, London, 1887--

ROYAL IRISH ACADEMY

Proceedings, Dublin, 1901-1902, 1903—

ROYAL IRISH ACADEMY

Transactions, Dublin, 1900-1903, and 1 part 1904

ROYAL SCOTTISH SOCIETY OF ARTS

Transactions, Edinburgh, 1895—

ROYAL UNITED SERVICE INSTITUTE

Journal, London, 1897—

SABIN, A. H.

Theory and practice of painting on metal. O. New York, 1905

ST. JOHN, N. B.—Department of Public Works.

Sewerage and water supplies, 1894-1898.

Report, 1888, 1889.

ST. JOHN, N. B. -Water and Sewerage Department.
Annual report, 1901, 1903

ST. JOHN CITY AND COUNTY GOOD ROADS ASSOCIATION

The streets of St. John. Report of Mr. A. W. Campbell, C.E., government roads commissioner for the Province of Ontario. Radical defects in street-making and repairing pointed out. O. St. John (1897).

ST. JOHNS, NEWFOUNDLAND

Improved sewerage. Report of H. C. Burchell, government engineer. Q. St. John's, 1887.

ST. LAWRENCE, GULF OF

Letters from Honourable P. Fortin, M.P., on the telegraph and signal service system in the Gulf of St. Lawrence on the United States signal service, and on the Norwegian telegraph system. O. Ottawa, 1881.

ST. PETER, SURVEY OF LAKE

Report of the board of engineers, as well as that of W. E. Logan, Esq., provincial geologist, upon the survey of Lake St. Peter, in October, 1850. O. Montreal, 1850.

SECOND REPORT

Second report of the committee....appointed for the purpose of determining a gauge for the manufacture of the various small screws used in telegraphic and electrical apparatus, in clock-work, and for other analogous purposes. O.

SANITARIAN

Monthly, Brooklyn, 1897-1904. Missing-1898.

SANITARY PLUMBER

Monthly, New York, October, 1896—October, 1897.

SCHOOL OF MINES QUARTERLY

New York, 1895—

SCIENTIFIC AMERICAN SUPPLEMENT

Weekly, New York, 1883-1893

SELWYN, ALFRED R. C., AND DAWSON, GEORGE M.

Descriptive sketch of the physical geography and geology of the Dominion of Canada. O. Montreal, 1884.

SERREL, EDWARD-WILLIAM

Rapport sur un pont suspendu projete pour le passage d'un chemin de fer et pour la traverse du fleuve St. Laurent, a Quebec, fait a son Honneur le Maire et au Conseil de ville de Quebec. O. Quebec, 1852.

SERRELL, WILLIAM

Report on a railway bridge over the river St. Lawrence, near Quebec, made for the city council, by order of the mayor. O. Quebec, 1852.

SHANLY, WALTER

See Montreal Harbour Commission.

SHANLY, W.

See Gzowski, C. S., and Shanly, W.

SIoux FALLS SEWERAGE SYSTEM

See Hering, Rudolf.

SMITH, MARCUS

Report regarding the channel of the Montreal, Ottawa and Georgian Bay Canal. D. (1898.)?

Report on the Montreal, Ottawa, and Georgian Bay canal, October 1st, 1895. O. Ottawa, 1895.

SMITH, WALTER

Education technique et enseignement du dessin industriel dans les ecoles publiques. Rapports et notes d'entretiens donnees a Montreal et a Quebec. Reedites par le Conseil des Arts et Metiers de la Province de Quebec, sous les auspices duquel ces entretiens ont lieu a demande d'instituteurs et a celle d'autres personnes. O. Montreal, 1883.

SNOW, WALTER B.

The influence of mechanical draft upon the ultimate efficiency of steam boilers. O. Reprinted from the Columbia Engineer, Columbia University, in the city of New York, 1899.

SOCIEDAD CIENTIFICA "ANTONIO ALZATE"

Memorias y Revista, Mexico, 1893—

SOCIETE DES INGENIEURS CIVILS

Annuaire, Paris, 1891— Cinquantenaire, 1896.

**SOCIETE D'ETUDES ET DE CONSTRUCTION D'UN PONT SUR
LA MANCHE**

See Channel Bridge and Railway Company, Limited.

SOCIETE DE GEOGRAPHIE DE QUEBEC

Bulletin, 1893-1897. O. Quebec, 1897.

SOCIETE INDUSTRIELLE DU NORD DE LA FRANCE

Bulletin, Lille, 1890—

SOCIETY OF ARTS

Journal, London, 1896—

SOCIETY OF TELEGRAPH ENGINEERS AND ELECTRICIANS

Rules and regulations recommended for the prevention of fire risks from electric lighting, April, 1888. O. London and New York.

SOUTH WALES INSTITUTE OF ENGINEERS

Proceedings, Cardiff, 1887-1903, incomplete. 1903—

SPRINGFIELD, MASS.

Annual report of the city engineer of Springfield, Mass., for the year ending December 10, 1891. O. Springfield, 1892.

STEARNS, FREDERIC P.

See Hering, Rudolf.

STECKEL, R.

Essay on the contracted liquid vein, affecting the present theory of the science of hydraulics. Read before the Royal Society of Canada, May 22, 1884. O. Ottawa, 1884.

Memorandum of the self-reducing Sanguet tacheometer, as adapted to precision levelling in connection with a new rod. Special appendix "B" to report of minister of public works for the fiscal year 1897-98. O. Ottawa, 1899.

STEVENS INSTITUTE OF TECHNOLOGY

Annual catalogue of the Stevens Institute of Technology; a school of mechanical engineering, and of the Stevens high school academic and preparatory department, Hoboken, N. J. Founded by Edwin A. Stevens. 1887-1888.

STODDART, F. WALLIS

The tanking of sewage. Q. London, 1905.

STONE, ROY

See U. S. Department of Agriculture Office of Road Inquiry.

STONEY, BINDON BLOOD

On the construction of harbour and marine works, with an abstract of the discussion upon the paper. Excerpt from the Minutes of Proc. of the Inst. of C. E. O. London, 1874.

SUPERIOR, WIS.—BOARD OF PUBLIC WORKS

Annual report of the board of public works of the city of Superior, Wis., for the year ending February 1, 1893, containing a report by Rudolf Hering, M. Can. Soc. C. E., on a system of sewerage. O. Superior, 1893.

SYRACUSE WATER BOARD

Annual report of the Syracuse Water Board to the mayor and common council of the city of Syracuse, for the years ending June, 1896, 1897, 1898. Syracuse. O.

TACOMA WATER COMMITTEE

See Hering, Rudolf.

TALAMANYOK LEIRASA

Buda-Pesth. 1894.

TATE, JAMES S.

Surcharged and different forms of retaining walls. O. London, 1873.

TAUNTON

Report of sewer commission to the mayor and city council, with report of Rudolf Hering, consulting engineer, annexed, November, 1895. O. Taunton, 1895.

TECHNICAL SOCIETY OF THE PACIFIC COAST

Flow of water in open channels, with tables based on Kutter's formula, by P. J. Flynn. O. 1890.

TECHNOLOGY QUARTERLY AND PROCEEDINGS OF THE SOCIETY OF ARTS

Boston, 1897—

TEKNISK UGEBLAD

Christiania, 1898.

TELEPHONE MAGAZINE

Monthly, Chicago, 1899—

TELEPHONY

Monthly, Chicago, September, 1905—

TICHY, ANTON

Graphische logarithmen-tafeln. O. Vienna, 1897.

TIDAL SURVEY

See Canada—Department of Marine and Fisheries.

TIPTON, J. C.

The Cumberland coal field, and its creators. O. Middlesborough, 1905.

TORONTO

Contract for the construction of a tunnel and shafts under Toronto bay, between main pumping station, foot of John street, and Toronto island. Sq. Q. Toronto.

Main sewerage system. Intercepting and outfall sewers. O. Toronto, 1886.

TORONTO—City Engineer.

Annual report, 1890— Missing—1891, 1898, 1899.

Report on disposal of the sewage of the city of Toronto. Q. Toronto, 1901.

TORONTO—Water Works Superintendent and Commissioners.

Annual report, 1876-89.

TRATMAN, E. E. RUSSEL

Report on the use of metal railroad ties, and on preservative processes and metal tie-plates for wooden ties....O. Washington, 1894. See U.S. Dept. of Agriculture, Forestry Division.

Preliminary report on the use of metal track on railways as a substitute for wooden ties. To which is added a report of experiments in wood seasoning by the Chicago, Burlington, and Quincy Railroad Company, and other notes. O. Washington, 1889. Department of agriculture, Forestry division. Bulletin No. 3.

Report on the substitution of metal for wood in railroad ties. Together with a discussion on practicable economies in the use of wood for railway purposes, by B. E. Fernow, chief of Forestry Division. O. Washington, 1890. U.S. department of agriculture. Forestry division. Bulletin No. 4.

TRINITY HOUSE OF MONTREAL

By-laws, orders, rules, and regulations. Earl of Elgin and Kincardine, governor-general. Ordained 2nd April, 1853. Sanctioned 3rd May.

Statuts, ordres, regles et reglements, etc. O. Montreal, 1856.

TRINITE, MAISON DE LA, DE MONTREAL

See Trinity house.

TULARE IRRIGATION DISTRICT BOARD OF DIRECTORS

Reports on the projected works. O. Tulare, California, 1890.

UNITED STATES Bureau of Statistics.

Quarterly report of the chief of the bureau of statistics, treasury department, relative to the imports, exports, immigration, and navigation of the United States for the three months ended September 30, 1879. Also containing other statistics relative to the trade and industry of the country. O. Washington, 1880.

UNITED STATES Coast Survey.

1853, 1855-1858.

UNITED STATES Department of Agriculture.

Report of the secretary of agriculture, 1896. O. Washington, 1896

UNITED STATES Department of Agriculture—Forestry Division.

Forest influences. Bulletin 7 of the F. D. O. Washington, 1893.
 What is forestry? by E. B. Fernow, chief of the Div. of For.
 Bulletin No. 5. O. Washington, 1891.

Report of the chief of the division of forestry for 1890-1893, by
 B. E. Fernow. 4 Vols. Washington, 1891-1894.

Report of the forest conditions of the Rocky Mountains, and
 other papers; with a map showing the location of forest areas
 on the Rocky Mountain range. Bulletin No. 2. O. Washing-
 ton, 1889.

Report on the use of metal railroad ties, and on preservative
 processes and metal tie-plates for wooden ties, by E. E. Russel
 Tratman, A. M. Am. Soc. C.E. Supplementary to report of the
 substitution of metal for wood in railroad ties, 1890. 2. Wash-
 ington, 1894.

Timber physics. Part 1. Preliminary report. O. Washington,
 1892.

UNITED STATES Department of Agriculture—Office of Experiment
Stations.

Proceedings of a convention of the National League for good
 roads...hearing by the Committee on Agriculture of the House
 of Representatives....Bulletin No. 14. O. Washington, 1893.

UNITED STATES Department of Agriculture—Office of Road
Inquiry.

Earth roads; hints on their construction and repair. Compiled
 by Roy Stone, special agent in charge of road inquiry. Bulletin
 No. 8. O. Washington, 1894.

Information regarding road materials and transportation rates
 in certain states west of the Mississippi river. Furnished by
 officials of various railway companies. Bulletin No. 5. O.
 Washington, 1894.

Information regarding roads, road materials, and freight rates
 in certain states north of the Ohio river. Furnished by officials
 of the various railway companies. Bulletin No. 6. O. Wash-
 ington, 1894.

Information regarding roads and road-making materials in cer-
 tain eastern and southern states. Furnished by officials of the
 various railway companies. Bulletin No. 7. O. Washington,
 1894.

Improvement of the road system of Georgia. By O. H. Sheffield,
 C.E. Bulletin No. 3. O. Washington, 1894.

Information regarding roads and road-making materials in certain eastern and southern states. O. Washington, 1894. Bulletin No. 7.

Proceedings of the Minnesota good roads convention held at St. Paul, 1894. Bulletin No. 2. Washington, 1894.

State aid to road-building in New Jersey, by Edward Burrough. Bulletin No. 9. O. Washington, 1894.

Report of road-making materials in Arkansas, by John C. Branner, Arkansas state geologist. Bulletin No. 4. O. Washington, 1894.

State laws relating to the management of roads. Enacted in 1888-93. Compiled by Roy Stone, special agent in charge of road inquiry. Bulletin No. 1. O. Washington, 1894.

UNITED STATES Department of Commerce and Labor—Bureau of the Census.

Publications issued by the census office since its organization under the act of March 3, 1889. O. Washington, 1903.

UNITED STATES Lighthouse Board.

Memoir on foundations on compressible soils, with experimental tests of pile-driving, and formula for resistance deduced therefrom. Compiled by Richard Delafield. Reprint O. Washington, 1878.

UNITED STATES Monthly Weather Review
1893—

UNITED STATES War Department
Annual report, 1871—

UNITED STATES ARMY Chief of Engineers.

Report of the commission of engineers upon the reclamation of the alluvial basin of the Mississippi river; being appendix 0 of the annual report of the chief engineers for 1875. O. Washington, 1875.

U. S. ARMY—Engineer Department.

Conclusions adopted by the French commission in reference to tests of cements.

The influence of sea-water on hydraulic mortars. O. Washington, 1897.

Notes on the Pointe de Grave, River Gironde, France, and the works for the protection of its shore against encroachments of the sea. By Lieut. W. H. Bixby. O. Washington, 1881.

Preliminary report of explorations in Nebraska and Dakota, in the years 1855-56-57. By Lieut G. K. Warren, Top Eng. Reprint O. Washington, 1875.

Reclamation of the alluvial basin of the Mississippi river. See Hilgard, Eugene W., and Hopkins, F. V.

Report on the experiments with the Seely and Bethell processes for the preservation of timber, accompanied by descriptions of these processes and of the Hayford process. O. Washington, 1879.

On tests of construction materials. O. Washington, 1896

UNITED STATES Artillery.

Journal, 1896—

UNITED STATES Geological Survey.

Bulletins, 1874— Incomplete.

Map of Alaska, showing known gold-bearing rocks, with descriptive text, containing sketches of the geography, geology, and gold deposits and routes to the gold fields. O. Washington, 1898.

Professional papers, 1903—

Water supply and irrigation. Papers, 1897—

UNITED STATES Naval Institute.

Proceedings, Annapolis, 1899—

UNIVERSITY CHRONICLE (University of California).

Berkeley, 1888—

UNIVERSITY OF CALIFORNIA

Bulletin on the building stones of California. By A. Wendell Jackson. O. Berkeley, 1888.

Publications, 1893—

Bulletin No. 2. Hydraulic Stop. O. Berkeley, 1887. Department of Mechanical Engineering.

Circular on testing materials. O. Berkeley, 1887. Department of Mechanical Engineering.

List of printed maps of California. O. Berkeley, 1887. Library Bulletin No. 9.

UNIVERSITY OF LONDON

Regulations relating to degrees in science From the calendar of the university. O. London, 1888.

UNIVERSITY OF WISCONSIN

Bulletin, 1894-1904.

USHER, J. P.

The Pacific railroads; their operation as one continuous line. Argument in behalf of the Kansas Pacific Railway, before the house committee on the Pacific railroad. O. Washington City, 1878.

VICTORIAN INSTITUTE OF ENGINEERS

Hydraulic shield tunnelling in Melbourne. By George Henry Dunlop, C.E. O. (Read before the Institute, August 3, 1898.)

WARING, GEO. E.

See Chipman, Willis.

WATERBURY

See Hering, Rudolf.

WEATHEBE, D'ARCY

Core drilling in Nova Scotia. A report for the use of drillmen and for the information of those interested in the subject of boring. Mines Department of Nova Scotia. D. Halifax, 1904.

WELLAND CANAL

See Canada—Department of Public Works

WESTERN ELECTRICIAN

Weekly, Chicago. October, 1896—

WESTERN RAILWAY CLUB

Official Proceedings, 1893—

WESTERN SOCIETY OF ENGINEERS

Journal, 1896—

WHEELER, W. H.

The action of waves and tides on the movement of material on the sea coast. British Association meeting. Bristol, 1898. O.

WHYTE, F. M.

The framing of cars. O.

WILLIAMS, GEORGE H.

See Bell, Robert, on the nickel and copper deposits of the Sudbury district.

WILLIAMSON, F. STUART

See Davis, Charles Henry.

WILMINGTON

See Hering, Rudolf.

WILSON, J. VEITCH

Association of employers, foremen, and draughtsmen of the mechanical trades of Great Britain. Established 1856.

Paper on lubrication, by Mr. J. Veitch Wilson, of Manchester. 31st March, 1883. O. Manchester, 1883.

WINNIPEG WATER SUPPLY

See Hering, Rudolf.

WORLD'S COLUMBIAN EXPOSITION, CHICAGO, 1893.

Classification adopted by the World's Columbian commission. O. Chicago, 1891.

Classification and rules, department of machinery and other information for intending exhibitors. O.

WORLD'S COLUMBIAN EXPOSITION—ENGINEERING CONGRESS AT CHICAGO, 1893.

Portugal Contribution of the Society of civil engineers. Descriptive catalogue of collection of albums, memoirs, and designs exhibited. O. unb. Lisbon, 1893.

WORLD'S COLUMBIAN EXPOSITION

See Lehigh University.

WOODBURY, C. J. H.

Electric lighting in mills. Transactions of the New England Cotton Manufacturers' Association. Q. Lynn, 1883.

ZEITSCHRIFT FÜR ARCHITEKTEN UND INGENIEURWESEN

Weekly, Vienna, 1901—

Part IV.

Subject Index to List of Unbound Pamphlets and Reports

ACCIDENTS

Mavor, Jas.

ACCOUNTS

Canada.

AGRICULTURE

Canada—Dept. of Agric.

Canada—Minister of Agric.

Mead, E.

U. S.—Dept. of Agric.

ALASKA

U. S. Geol. Survey.

ARCHITECTURE

Aiyar, A. V. R.

Baillaigé, C.

Morlands, F. G.

Peabody, R. S.

ASSOCIATIONS

See Part V of this Catalogue.

AEROSTATICS

Chanute, O.

BANKS

Canada.

BIOGRAPHY

Baillaigé, G. F.

BOSTON

Boston.

Francis, J. B.

BOTANY

Macoun, J.

BRIDGES

Channel Bridge & Ry. Co.

Japan.

Kennedy, J.

Quebec.

Serrel, E. W.

BUILDING

National Association of Builders
of the U. S.

Roanoke.

CABLES (Telegraph)

Direct U. S. Cable Co.

CALIFORNIA

Univ. of Cal.

CANALS

Boston.

Canada.

Chignecto.

Clarke, T. C.

Colorado.

Cornwall.

Dawson, W. B.

Duluth.

Hawkshaw, J.

Hilgard, E. W.

International.

Judson, W. P.

Keefer, T. C.

Monro, T.

Montreal.

New York.

Ogden Bench.

Smith, M.

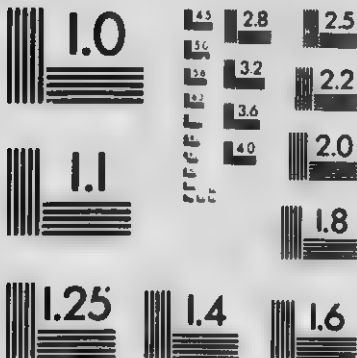
Technical Soc.

See also Irrigation.



MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



APPLIED IMAGE Inc

1653 East Main Street
Rochester New York 14609 USA
(716) 482-0300 Phone
(716) 288-5989 Fax

CANADA

Baillairgé,
Bartlett, J. H.
Canada.
Caughnawauqua.
Geological Survey.
Selwyn, A. R. C.

CAR BUILDING

Master Car Builders.
Whyte, F. M.

CEMENT

U. S. Army Engineer Department.
Argentina.

CENSUS

U. S. Dept. of Commerce.

CHARCOAL

Egleston, T.

CHEMICAL ANALYSES

Egleston, T.

CIVIL ENGINEERING—SOCIETIES

See Part V of this Catalogue.

COAL

Bartlett, J. H.
Diescher, S.
Tipton, J. C.

COMMERCE

Corthell, E. L.

CONCRETE

Robertson, George.

CONGRESSES

See Part V of this Catalogue.

COPPER

Egleston, T.

CRIMINALS

Canada—Dept. of Agric.

CRYSTALS (Mineralogy)

Egleston, T.

DAMS

Hilgard, E. W.
New York.
Rafter, G. W.
Tate, J. S.

DICTIONARIES

Baillairgé, C.
Tolmie, W. F.

DIRECTORIES

Iron Age.
Pocket-List of R. R. Officials.

DOCKS

Liverpool.
Mersey.
Robertson.
See also Dry Docks.

DRAUGHT

Snow, Walter B.

DRILLING

Weatherbe, D'Arcy

DRY DOCKS

Halifax.

EARTHQUAKES

California.

ELECTRICAL ENGINEERING

Davis, C. H.

ELECTRICITY—BATTERIES

General Electric Co.
Jamieson.

ELECTRICITY—LIGHTING

Society of Telegraph Engineers
Woodbury, C. J. H.

ELECTRICITY—TRACTION

Davis, C. H.

ENGINEERING

Anderson, W.
Association of Eng'rs of Virginia
Barr, Arch.

ENGINEERING LAW

New York City.

EXHIBITIONS

Canada—Dept. of Agric.
Engineering Times
World's Columbian Exposition

EXPLORATIONS

U. S. Army, Eng'r Dept.

FILTRATION

See Water Supply.

FIRE BRICK AND REFRACTORY MATERIAL

Egleston, T.

FIRES

British Fire Prevention Committee.

Goad, C. E.

Society of Telegraph Engineers.

FLYING MACHINES

See Aerostatics.

FORESTRY

Canada—Dept. of Interior.

Drummond, A. T.

Fernow, B. E.

Ontario.

Ross, N. M.

U. S. Dept. of Agric.

See also Timber.

FOUNDATIONS

U. S. Lighthouse Board.

FUEL

Egleston, T.

FURNACES

Egleston, T.

GARBAGE

Hering, R.

GAS

Egleston, T.

GEOLOGY

Geological Survey of Canada.

Geological Survey of Western Australia.

Selwyn, A.

U. S. Geol. Survey.

University of California.

GEOLOGY—ECONOMIC

Adams, F. D.

Bell, R.

Colonial.

Daropsley, L.

Dawson, G. M.

Geological Survey.

Hoffman, G. C.

University of California

GEOLOGY—PALEONTOLOGY

Billings, E.

Dawson, Sir J. W.

Foord, A. H.

Geological Survey.

Hall, J.

Whitcaves, J. F.

GOLD

Egleston, T.

Geological Survey of Canada

U. S. Geological Survey.

GUATEMALA

Neiderlein, G.

HARBOURS

Canada—Dept. of Public Works.

Ellisott, J.

Liverpool.

Luigi, M. L.

Mersey.

Montreal.

Quebec Harbour.

Stoney, B. B.

U. S. Army En'g Dept.

HEATING AND VENTILATION

Baillairgé, Charles.

HYDRAULICS

Canada.

Crowell, H. C.

Flynn, P. J.

Francis, J. B.

Leslie, A.

Luthy, R.

Rodda, J. T.

Steckel, R.

Technical Soc. of the Pac. Coast.

University of California.

HYDROLOGY

Auchincloss, W. S.

HYGIENE

Baltimore Health Dept.

LaRocque, A.

INSTITUTIONS

See Part V of this Catalogue.

IRON ORES

Iron Ore.

IRON AND STEEL

Amer. I. & S. Assoc.
Bartlett, J. H.
Egleston, T.
Maltes, W. F.

IRRIGATION

Canada—Dept. of Interior.
Colorado State Agric. Coll.
Ogden Bench Canal and Water Co.
Tulare.
U. S. Geol. Survey.
See also Agriculture.

KINEMATICS

Eddy, H. T.
Kennedy, Sir A. B. W.

LANDS

Ontario—Legislative Assembly.
Quebec—Legislature.

LIGHTHOUSES

Trinity House.
U. S. Lighthouse Board.

LUBRICATION

Wilson, J. V.

MAPS

Canada—Minister of Public Wks.
U. S. Geol. Survey.
University of California.

MASONRY

University of California.

MATHEMATICS

Davis, R. F.
Eddy, P. T.
Tichy, Anton.

MECHANICAL ENGINEERING

Davis, C. H.
Manchester.

MENSURATION

Baillairgé, C.

METALLURGY

Egleston, T.

METEOROLOGY

New York State.
U. S. Monthly Weather Review.

MINING

Brough, B. H.
Egleston, T.
Nova Scotia.
Ontario—Bureau of Mines.
Poole, Henry S.

MINING SOCIETIES

Brough, B. H.

MINING LAW

Nova Scotia.

MINERAL RESOURCES

See Geology, Economic.

MONTREAL

LaRoque, A. B.
Patterson, W. J.

MUSEUMS

New York.
Philadelphia.

NAVIGATION

Canada—Dept. of Marine.
Corthell, E. L.
Dawson, W. B.
International Maritime Congress
Trinity House.
U. S. Coast Survey.

NICARAGUA

Philadelphia Museums.

NOVA SCOTIA

Weatherbe, D'Arcy.

PAINT

Sabin.

PATENTS

Great Britain—Patents for Inventions.
Hall, W. S.
Macfie, R. A.

PLUMBING

See Sewage.

POPULATION

Corthell, E. L.

POWER

Goslin, S. B.

POWER PLANTS

Lachine Rapids Hyd. & Land Co.
Matthews, F. B.

PUBLIC WORKS

McCullough, E.
See also the Authors' List under
names of Cities, Provinces, etc.

QUEBEC

Baillairgé, C.
Beaudry, J. A.
Berlinguet, F. X.
Société de Géographie de Québec.

RAILWAYS

Canada—Ry. Statistics.
Corthell, E. L.
Master Car Builders' Assoc.
N. E. Road Masters' Assoc.
N. Y. Rapid Transit Comm.
N. S. Prov. Eng'r.
Pacific Railroads.
Pocket List of R. R. Officials.
Rochussen, T. A.
Royal Commission.
Tratman, E. E. R.
Usher, J. P.
Whyte, F. M.

RAILWAYS—SPECIAL

C. P. R.—Canadian Pacific Ry.
Fleming, Sir S.
Gzowski, Sir C. S.
G. T. R.—Grand Trunk Ry.
Mon.
HUDSON BA Baillairgé, C.

REFUSE

See Garbage; Sewage.

RIVERS

Montreal Harbour Comm.
Ottawa River.
St. Peter.
U. S. Army—Chief of Engineers.
U. S. Army—Eng'r Dept.

ROADS—HIGHWAYS

Baillairgé, C.
Burrough, E.
Chase, C. P.
Howard, J. W.
New Brunswick Good Rds. Assoc.
Ontario—Dept. of Agric.
Ontario—Legislative Assembly.
Ontario—Prov. Instructor.

St. John City and County Good
Roads Assoc.

U. S. Dept. of Agric. Office of Ex-
perimental Stations.
U. S. Dept. of Agric. Office of
Road Inquiry.

SANITATION

See Hygiene.

SAWDUST

Ottawa River.

SCIENCE

Bovey, H. T.

SEWAGE AND SEWERAGE

Adams, J. W.
Chipman, W.
Cleveland.
Hering, R.
Hughes, J. W.
Montreal.
Nevada.
Potter, Alex.
Providence.
St. John.
St. Johns.
Stoddart, F. W.
Superior.
Taunton.
Toronto.

SHIPS AND STEAM VESSELS

Canada—Dept. of Marine.

SHIP RAILWAYS

Chignecto Ship Ry.

SIGNALS

St. Lawrence—Gulf.

SILVER

Egleston, T.

SMOKE

Franklin Institute.

SOCIETIES

See Part V of this Catalogue.

SOCIOLOGY

Baillairgé, C.
Canada (Dept. of Justice).

STANDARDS

Second Report.

STATISTICS

Canada—Statistical Year Book.
Johnson, G.

STEAM BOILERS

Snow, W. B.

STEAM ENGINES

Davis, C. H.
Goslin, S. B.
Hoadley, J. C.
Institution of Civil Eng'rs.
Junior Eng'ring Society.

STRENGTH OF MATERIALS AND STRUCTURES

Boston.
Brown, W. L.
Cilley, F. H.
U. S. Army—Eng'r Dept.
U. S. Dept. of Agric.

SUDBURY

Bell, Robert.

SURVEYING AND LEVELLING

Canada.
Indiana.
Knudson, A.
Leslie, H.
Lovelace, E. S. M.
Ontario—Legislative Assembly.
Quebec Legislature.
Stecker, R.
U. S. Army—Eng'r Dept.

TECHNICAL EDUCATION

Egleston, T.
Galbraith, J.
Jenkins, H. C.
Lehigh University.
Smith, W.
University of London.

TELEGRAPHS

Guarini, Emile
Montreal.
St. Lawrence, Gulf of.

TEMPERATURE

Poole, Henry S.

TESTING

Bauschinger, J.
Egleston, T.
Institution of C. E.
Jamieson.
Lauza, G.
U. S. Army—Eng'r Dept.
University of California.

THERMODYNAMICS

Eddy, H. T.

TIDES

Canada—Dept. of Marine.
Dawson, W. H.

TIMBER

Brown, W. L.
Boston Mfrs. Mutual Fire Ass. Co
Lamb, R.
Lanza, G.
Tratman, E. E. R.
U. S. Dept of Agric.—
Forestry Div.
See also Forestry.

TIMBER—PRESERVATION

Mackenzie, W. B.
McKinney.
U. S. Army—Eng'r Dept.

TIME OBSERVATIONS

Fleming, Sir S.

TRADE AND NAVIGATION

Canada.
Montreal.
Patterson, W. J.
U. S. Bureau of Statistics.
U. S. Depart. of Commerce and
Labor.

TREATIES

Canada.

TUNNELS

Toronto.
Victorian Institute.

UNIVERSITIES

Clarke, J. M.
Dalhousie.
Johns Hopkins.
Lehigh.
McGill.
Stevens Institute.
University of California.
University of Wisconsin.

VALVE GEAR

British Association.
Lüthy, R.

VENTILATION

Baillairgé, C.

WALLS

Tate, J. S.

WATER POWER

Goslin, S. B.
Nagle, A. F.
Reid, R. C.

WATER SUPPLY

Baillairgé, C.
Beaudry, J. A. U.
Berlinguet, F. X.
Cambridge.
Cleveland.
Colorado.
Dayton.
Dundee.
Hering, R.
Herschel, C.
Hill, W. R.
Leslie, A.
Munro, T.
New Orleans.
Ottawa.
Pawtucket.
Rafter, G. W.
Rodda, J. T.
St. John.
Syracuse.
Toronto.
U. S. Geol. Survey.

WATERWAYS

Blackwell, T. E.
Corthell, E. L.
International Deep Waterways
Commission.
Quebec Harbor.
St. Peter.
Wheeler, W. H.

WAVES

Wheeler, W. H.

WEIGHTS AND MEASURES

Canada.

WHARVES

Connor, E. H.

WHITE HOUSE

Morlands, F. G.

WIND POWER

Goslin, S. B.
Matthew, F. B.

**WORKS—DESIGN AND CON-
STRUCTION**

Davis, C. H.

YUKON

Canada—House of Parliament.
Geological Survey.
Jennings, W. T.

ZINC

Egleston, T.

Part V.

List of Transactions, Proceedings, Etc., of Societies

- American Institute of Architects: Annual Convention Report, 1890—
Quarterly Bulletin, April, 1900—
American Institute of Electrical Engineers: Transactions, 1889—
American Institute of Mining Engineers: Bi-monthly Bulletin,
March, 1905: Transactions, 1887—
American Railway Engineering and Maintenance of Way Association:
Bulletin, October, 1902— Incomplete. Proceedings, 1900—
American Society of Civil Engineers: Proceedings, 1896— Trans-
actions, 1872—
American Society of Mechanical Engineers: Transactions, 1880—
American Society for Testing Materials: Proceedings, 1901—
American Water Works Association: Proceedings, 1903, 1904.
Appleton's Mechanic's Magazine and Engineer's Journal, 1851-1853.
Armour Institute of Technology: Year Book, 1895—
Missing 1900-1901.
Association of Civil Engineers of Cornell University: Journal.
Incomplete.
Association of Engineering Societies: Journal, 1894—
Association of Land Surveyors of the Province of Ontario: Annual
Report and Proceedings, 1891, 1894-1900, 1904.
Boston Society of Civil Engineers: Constitution and By-laws, 1891—
1904 incomplete.
Brooklyn Engineers' Club: Proceedings, 1904, 1905.
Canadian Forestry Association: Report of Annual Meeting, 1901,
1903.
Canadian Institute: Proceedings, 1885-1897. Incomplete. Transac-
tions, 1891-1902.
Canadian Mining Institute: Journal, 1898—
Canadian Society of Civil Engineers: Transactions, 1888—
Cleveland Institute of Engineers: Proceedings, 1890— Incomplete.

- Collegio degli Ingegneri ed Architetti: Milan. Atti, 1887-1894.
- Connecticut Association of Civil Engineers and Surveyors, Proceedings, 1890-1891.
- Denver Society of Civil Engineers. Transactions, 1890-1891.
- Engineering Association of New South Wales: Minutes of proceedings, 1880—
- Engineering Association of the South: Proceedings, 1893-1899. Incomplete, 1900—
- Engineering Society of the School of Practical Science: Transactions, 1887—
- Engineers' Club of Philadelphia: Proceedings, 1882-1884. Incomplete. April, 1902—
- Engineers Club of Philadelphia: Proceedings, 1888—
- Engineers' Society of Western Pennsylvania: Proceedings, 1890—
- Federated Mining Institute: 1897-1898.
- Franklin Institute: Journal, 1887
- Highland and Agricultural Society of Scotland: Transactions fifth series. Edinburgh, 1889—
- Indiana Society of Civil Engineers and Surveyors of the State of Indiana. Proceedings, 1898.
- Institution of Civil Engineers: Minutes of Proceedings, 1880— Transactions, 1836-1842.
- Institution of Civil Engineers of Ireland: Transactions, 1880—
- Institution of Engineers and Shipbuilders in Scotland: Transactions, 1887-1892.
- Institution of Mechanical Engineers: Proceedings, 1887—
- Institution of Mining and Metallurgy: Transactions, 1883—
- Junior Engineering Society, Records of Transactions, 1893
- Koninklijk Instituut van Ingenieurs: Tijdschrift, 1899, 1905.
- Liverpool Engineering Society: Transactions, 1880
- Manchester Association of Engineers: Transactions, 1890—
- Massachusetts Institute of Technology: Proceedings, 1879-1889. Quarterly, 1888-1896.
- Mining Institute of Scotland: Transactions, 1887-1898.
- Midland Institute: Proceedings, 1890-1904.
- Mining Society of Nova Scotia: Journal. Vol. 5 (1899-1900), and Vol. 8 (1904). Transactions, 1892-1893. Incomplete.
- Municipal Engineers of the City of New York: Proceedings, 1903—
- National Association of Builders of the United States. Annual Report, 1888-1889.
- New England Road Masters' Association. Proceedings, 1898-1899
- North-East Coast Institution of Engineers and Shipbuilders: Transactions, 1888—
- Nova Scotian Institute of Science: 1865-1869, 1876, 1877, 1894-1902.

- Nova Scotian Institute of Natural Science: Proceedings and transactions, 1882-1895.
- Oesterreiche Ingenieur und Architekten Verein: Wochenschrift, 1887-1891. Zeitschrift, 1887—
- Philosophical Society of Glasgow: Proceedings, 1886—
- Royal Artillery Institution: Proceedings, with reports, précis, translations, etc., 1888—
- Royal Dublin Society: Proceedings, 1887-1903. Incomplete (1888 and 1891 complete). Scientific Transactions, 1887—
- Royal Engineers, Corps of: Professional papers, 1844, 1849, 1878—
- Royal Institute of British Architects: Journal, 1887— Missing 1889. Kalender, 1887— Proceedings, 1890. Transactions, 1889—
- Royal Irish Academy: Proceedings, 1901-1902, 1904. Incomplete. Transactions, 1900-1903, and 1 part 1904.
- Royal Scottish Society of Arts: Transactions, 1891—
- Royal Society of Canada: Proceedings and transactions, 1885—
- Royal Society of Edinburgh: Proceedings, 1886—
- Royal United Service Institute: Journal, 1897—
- Sociedad Científica "Antonio Alzate": Memorias y Revista, 1893—
- Société des Ingénieurs Civils: Annuaire, 1891— Cinquantenaire, 1890, Mémoires et Comptes rendus des travaux, 1889—
- Société Industrielle du Nord de la France: Bulletin, 1890—
- Société de Géographie de Québec. Bulletin 1893-1897.
- Société Scientifique Industrielle de Marseille. Bulletin, 1886—
- Society of Arts: Journal, 1887—
- Society of Engineers: Transactions, 1886—
- South Wales Institute of Engineers: Proceedings, 1887-1903— Incomplete. 1903—
- Technical Society of the Pacific Coast: Transactions, 1888.
- United Service Institution: Journal, 1888-1896.
- United States Naval Institute: Proceedings, 1888—
- United States Artillery: Journal, 1896—
- Victorian Institute of Surveyors: Transactions and proceedings, 1891—
- Western Railway Club, 1893—
- Western Society of Engineers: Journal, 1896—

Part VI.

List of Periodicals

- American Architect and Building News, 1896—
American Engineer and Railroad Journal, 1832—
Bibliographie des Sciences et de l'Industrie, 1899, 1901, November
1904—
Boston Public Library Bulletins, 1894—
Builder, 1856-1867.
Canadian Electrical News and Engineering Journal, 1897—
Canadian Engineer, May, 1893, 1896, 1898—
Canadian Machinery, June, 1905—
Canadian Mining Review, January, 1902—
Carnegie Library of Pittsburg Bulletins, 1901—
Cassiers' Magazine, 1891—
Chicago Journal of Commerce, 1896-1898.
Civil Engineer and Architect's Journal, 1847-1851, 1861-1864.
Colorado School of Mines Bulletin, January, 1901—
Construction News, 1899-1901.
Cornell University Library Bulletin, 1883-1890. Incomplete.
Digest of Physical Tests, April, 1896—October, 1898.
Domestic Engineering, January, 1905—July, 1905.
Electric Power, 1889-1891.
Electrical Age, 1896-1899.
Electrical Engineer and Electric Light, 1890, 1891, 1896—
Electrical Engineering and Telephone Magazine, 1893-1898.
Electrical Review (London), 1896—
Electrical Review (New York), 1898—
Electrical World, 1887, 1888, 1892, 1893, 1895—
Electrical World and Engineer, 1901—
Engineer (Chicago), 1903—
Engineer (London), 1856—
Engineering, 1866—
Engineering Journal of Canada, September, 1905—
Engineering Magazine, 1891—
Engineering Mechanics, 1890 complete and 1899 incomplete.
Engineering News, October, 1889—
Engineering Review, January, 1904—
Engineering Record, 1898—
Engineering Times, 1900—
Engineers' Gazette, 1895-1903.

- Fielden's Magazine, July, 1890—December, 1903.
 Indian Engineering, 1888—
 Industry and Iron, 1896-1899.
 De Ingenieur, 1900—
 Ingeniors Foreningens, 1897-1899.
 Iron Age, 1901—
 Iron and Machinery World, 1903.
 Iron and Steel, 1898—June, 1902.
 Ironmonger, 1890, 1892-1899.
 John Cramer Library Publications, 1901-1904.
 Machinery, 1900—
 A Magyar Mernök-es Építész-Egylet, 1894—
 Marine Review, 1899—
 Mechanical Engineer, 1898—
 Mechanical World, 1897-1900.
 Mines and Minerals, 1903—
 Mining Journal, Railway and Commercial Gazette, January, 1891—
 June, 1898.
 Mining Magazine, July, 1904—
 Mining Reporter, January, 1904—
 Modern Machinery, 1897-1899.
 Motor Car Journal, May, 1905—
 Municipal Engineer, January, 1902—
 Municipal and Railway Record, 1899.
 National Car Builder, 1876-1884.
 National Car and Locomotive Builder, 1891-1903. Incomplete.
 (1894, 1895 complete.)
 Norsk Technisk Tidsskrift, 1888-1897. Missing 1890.
 Page's Magazine, October, 1902—
 Physical Review, January, 1895—December, 1896.
 Practical Engineer, 1895-1897.
 Practical Engineer and Engineers' Gazette, January, 1904—
 Practical Mechanic and Engineer's Magazine, 1841-1847.
 Railroad and Engineering Journal, 1890.
 Railroad Gazette, 1886—
 Railway Age, 1896—
 Railway Engineer, 1880-1881.
 Railway and Engineering Review, 1897—
 Railway and Locomotive Engineer, November, 1896—
 Railway and Shipping World, 1899—
 Revista Technologico Industrial de Barcelona, 1890-1904. Missing
 1891 and 1893.
 Revue Technique, 1897—

Sanitarian, 1897-1904. Missing 1898.
 Sanitary Plumber, October, 1896—October, 1897.
 School of Mines Quarterly, 1891-2, 1893—
 Scientific American, 1868-1882.
 Scientific American Supplement, 1883-1893.
 Találmányok Leirása, 1894.
 Technology Quarterly and Proceedings of the Society of Arts, 1897—
 Teknisk Ugeblad, 1898.
 Telephone Magazine, 1899—
 Telephony, September, 1903—
 University Chronicle (University of California), 1888—
 Western Electrician, October, 1896—
 Zeitschrift für Architekten und Ingenieurwesen, 1901—